DESCRIPTION

2,3,6-TRISUBSTITUTED -4-PYRIMIDONE DERIVATIVES

Technical Field

The present invention relates to compounds that are useful as an active ingredient of a medicament for preventive and/or therapeutic treatment of diseases mainly caused by abnormal activity of tau protein kinase 1, such as neurodegenerative diseases (e.g. Alzheimer disease).

Background Art

Alzheimer disease is progressive senile dementia, in which marked cerebral cortical atrophy is observed due to degeneration of nerve cells and decrease of nerve cell number. Pathologically, numerous senile plaques and neurofibrillary tangles are observed in brain. The number of patients has been increased with the increment of aged population, and the disease arises a serious social problem. Although various theories have been proposed, a cause of the disease has not yet been elucidated. Early resolution of the cause has been desired.

It has been known that the degree of appearance of two characteristic pathological changes of Alzheimer disease well correlates to the degree of intellectual dysfunction. Therefore, researches have been conducted from early 1980's to reveal the cause of the disease through molecular level investigations of components of the two pathological changes. Senile plaques accumulate extracellularly, and β amyloid protein has been elucidated as their main component (abbreviated as "A β " hereinafter in the specification: Biochem. Biophys. Res. Commun., 120, 855 (1984); EMBO J., 4, 2757 (1985); Proc. Natl. Acad. Sci. USA, 82, 4245 (1985)). In the other pathological change, i.e., the neurofibrillary tangles, a double-helical filamentous substance called paired helical filament (abbreviated

as "PHF" hereinafter in the specification) accumulate intracellularly, and tau protein, which is a kind of microtubule-associated protein specific for brain, has been revealed as its main component (Proc. Natl. Acad. Sci. USA, 85, 4506 (1988); Neuron, 1, 827 (1988)).

Furthermore, on the basis of genetic investigations, presentlins 1 and 2 were found as causative genes of familial Alzheimer disease (Nature, 375, 754 (1995); Science, 269, 973 (1995); Nature. 376, 775 (1995)), and it has been revealed that presence of mutants of presentlins 1 and 2 promotes the secretion of A β (Neuron, 17, 1005 (1996); Proc. Natl. Acad. Sci. USA, 94, 2025 (1997)). From these results, it is considered that, in Alzheimer disease, A β abnormally accumulates and agglomerates due to a certain reason, which engages with the formation of PHF to cause death of nerve cells. It is also expected that extracellular outflow of glutamic acid and activation of glutamate receptor responding to the outflow may possibly be important factors in an early process of the nerve cell death caused by ischemic cerebrovascular accidents (Sai-shin Igaku [Latest Medicine], 49, 1506 (1994)).

It has been reported that kainic acid treatment that stimulates the AMPA receptor, one of glutamate receptor, increases mRNA of the amyloid precursor protein (abbreviated as "APP" hereinafter in the specification) as a precursor of A β (Society for Neuroscience Abstracts, 17, 1445 (1991)), and also promotes metabolism of APP (The Journal of Neuroscience, 10, 2400 (1990)). Therefore, it has been strongly suggested that the accumulation of A β is involved in cellular death due to ischemic cerebrovascular disorders. Other diseases in which abnormal accumulation and agglomeration of A β are observed include, for example, Down syndrome, cerebral bleeding due to solitary cerebral amyloid angiopathy, Lewy body disease (Shin-kei Shinpo [Nerve Advance], 34, 343 (1990); Tanpaku-shitu Kaku-san Koso [Protein, Nucleic Acid, Enzyme], 41, 1476 (1996)) and the like. Furthermore, as diseases showing neurofibrillary tangles due to the PHF accumulation, examples

include progressive supranuclear palsy, subacute sclerosing panencephalitic parkinsonism, postencephalitic parkinsonism, pugilistic encephalitis, Guam parkinsonism-dementia complex, Lewy body disease and the like (Tanpakushitu Kakusan Koso [Protein, Nucleic Acid, Enzyme], 36, 2 (1991); Igaku no Ayumi [Progress of Medicine], 158, 511 (1991); Tanpakushitu Kakusan Koso [Protein, Nucleic Acid, Enzyme], 41, 1476 (1996)).

The tau protein is generally composed of a group of related proteins that forms several bands at molecular weights of 48-65 kDa in SDS-polyacrylamide gel electrophoresis, and it promotes the formation of microtubules. It has been verified that tau protein incorporated in the PHF in the brain suffering from Alzheimer disease is abnormally phosphorylated compared with usual tau protein (J. Biochem., 99, 1807 (1986); Proc. Natl. Acad. Sci. USA, 83, 4913 (1986)). An enzyme catalyzing the abnormal phosphorylation has been isolated. The protein was named as tau protein kinase 1 (abbreviated as "TPK1" hereinafter in the specification), and its physicochemical properties have been elucidated (Seikagaku [Biochemistry], 64, 308 (1992); J. Biol. Chem., 267, 10897 (1992)). Moreover, cDNA of rat TPK1 was cloned from a rat cerebral cortex cDNA library based on a partial amino acid sequence of TPK1, and its nucleotide sequence was determined and an amino acid sequence was deduced (Japanese Patent Un-examined Publication [Kokai] No. 6-239893/1994). As a result, it has been revealed that the primary structure of the rat TPK1 corresponds to that of the enzyme known as rat GSK-3 β (glycogen synthase kinase 3β , FEBS Lett., 325, 167 (1993)).

It has been reported that A β , the main component of senile plaques, is neurotoxic (Science, 250, 279 (1990)). However, various theories have been proposed as for the reason why A β causes the cell death, and any authentic theory has not yet been established. Takashima et al. observed that the cell death was caused by A β treatment of fetal rat hippocampus primary culture system, and then found that the TPK1 activity was increased by A β treatment and the cell death by

A β was inhibited by antisense of TPK1 (Proc. Natl. Acad. Sci. USA, 90, 7789 (1993); Japanese Patent Un-examined Publication [Kokai] No. 6-329551/1994).

In view of the foregoing, compounds which inhibit the TPK1 activity may possibly suppress the neurotoxicity of A β and the formation of PHF and inhibit the nerve cell death in the Alzheimer disease, thereby cease or defer the progress of the disease. The compounds may also be possibly used as a medicament for therapeutic treatment of ischemic cerebrovascular disorder, Down syndrome, cerebral amyloid angiopathy, cerebral bleeding due to Lewy body disease and the like by suppressing the cytotoxicity of A β . Furthermore, the compounds may possibly be used as a medicament for therapeutic treatment of neurodegenerative diseases such as progressive supranuclear palsy, subacute sclerosing panencephalitic parkinsonism, postencephalitic parkinsonism, pugilistic encephalitis, Guam parkinsonism-dementia complex, Lewy body disease, Pick's disease, corticobasal degeneration, frontotemporal dementia, vascular dementia, acute stroke and traumatic injuries, brain and spinal cord trauma, peripheral neuropathies, retinopathies and glaucoma; non-insulin dependent diabetes (such as diabetes type II), and obesity, manic depressive illness, schizophrenia, alopecia, cancers such as breast cancer, non-small cell lung carcinoma, thyroid cancer, T or B-cell leukemia and several virus-induced tumors.

As structurally similar compounds to the compounds of the present invention represented by formula (I) described later, compounds represented by the following formula (A) are known:

wherein R represents 2,6-dichlorobenzyl group, 2-(2-chlorophenyl)ethylamino group, 3-phenylpropylamino group, or 1-methyl-3-phenylpropylamino group (WO98/24782). The compounds represented by formula (A) are characterized to have 4-fluorophenyl group at the 5-position of the pyrimidine ring and a hydroxy group at the 4-position, and not falling within the scope of the present invention. Moreover, main pharmacological activity of the compounds represented by formula (A) is anti-inflammatory effect, whereas the compounds of the present invention represented by formula (I) are useful as a TPK1 inhibitor or a medicament for therapeutic treatment of neurodegenerative diseases, and therefore, their pharmacological activities are totally different to each other.

Patent Document 1: WO 00/18758

Patent Document 2: WO 01/70728

Patent Document 3: WO 01/70729

Disclosure of the Invention

An object of the present invention is to provide compounds useful as an active ingredient of a medicament for preventive and/or therapeutic treatment of diseases such as Alzheimer disease. More specifically, the object is to provide novel compounds useful as an active ingredient of a medicament that enables radical prevention and/or treatment of the neurodegenerative diseases such as Alzheimer disease by inhibiting the TPK1 activity to suppress the neurotoxicity of A β and the formation of the PHF and by inhibiting the death of nerve cells.

In order to achieve the foregoing object, the inventors of the present invention conducted screenings of various compounds having inhibitory activity against the phosphorylation of TPK1. As a result, they found that compounds represented by the following formula (I) had the desired activity and were useful as an active ingredient of a medicament for preventive and/or therapeutic treatment of

the aforementioned diseases. The present invention was achieved on the basis of these findings.

The present invention thus provides 3-substituted-4-pyrimidone derivatives represented by formula (I) or salts thereof, or solvates thereof or hydrates thereof:

$$(X)_{m} \xrightarrow{N} \begin{array}{c} N \\ N \\ N \\ N \end{array}$$

$$(Y)_{n} \begin{array}{c} N \\ N \\ R \end{array}$$

$$(I)$$

wherein Q represents CH or nitrogen atom;

R represents a C_1 - C_{12} alkyl group which may be substituted; the ring of:

represents piperazine ring or piperidine ring; each X independently represents

 $X^1 - X^2 -$

wherein X¹ represents an oxo group; a C¹-C² alkyl group which may be substituted; a C³-C³ cycloalkyl group which may be substituted; an optionally partially hydrogenated C⁶-C¹⁰ aryl ring which may be substituted; an indan ring which may be substituted; an optionally substituted heterocyclic ring having 1 to 4 hetero atoms selected from the group consisting of oxygen atom, sulfur atom, and nitrogen atom, and having 5 to 10 ring-constituting atoms in total; an aralkyloxy group; a group represented by -N(Ra)(Rb) wherein Ra and Rb are the same or different and each is hydrogen, a C¹-C⁴ alkyl group which may be substituted, an aralkyl group which may be substituted, an aryl group which may be substituted, C¹-C³ alkylcarbonyl group which may be

substituted,

C3-C8 cycloalkylcarbonyl group which may be substituted, aralkycarbonyl group which may be substituted, C6-C10 arylcarbonyl group which may be substituted, C1-C8 alkysulfonyl group which may be substituted, C3-C8 cycloalkylsulfonyl group which may be substituted, aralkysulfonyl group which may be substituted, C6-C10 arylsulfonyl group which may be substituted, C1-C8 alkyloxycarbonyl group which may be substituted, C3-C8 cycloalkyloxycarbonyl group which may be substituted, aralkyoxycarbonyl group which may be substituted, C6-C10 aryloxycarbonyl group which may be substituted, aralkyoxycarbonyl group which may be substituted, aminocarbonyl,

N-C1-C8 alkylaminocarbonyl group which may be substituted,
N, N'-C1-C8 dialkylaminocarbonyl group which may be substituted,
N-C1-C8 alkyl-N'-C3-C8 cycloalkylaminocarbonyl group which may be substituted,
N-C1-C8 alkyl-N'-aralkylaminocarbonyl group which may be substituted,
N-C1-C8 alkyl-N'-C6-C10 arylaminocarbonyl group which may be substituted,
C3-C8 cycloalkylaminocarbonyl group which may be substituted,
N,N'-C3-C8 dicycloalkylaminoycarbonyl group which may be substituted,
N-C3-C8 cycloalkyl-N'-aralkylaminocarbonyl group which may be substituted,
N-C3-C8 cycloalkyl-N'-C6-C10 arylaminocarbonyl group which may be substituted,
aralkylaminocarbonyl group which may be substituted,
N,N'-diaralkylaminocarbonyl group which may be substituted,
N-aralkyl- N'-C6-C10 arylaminocarbonyl group which may be substituted,
C6-C10 arylaminocarbonyl group which may be substituted,

or an optionally substituted heterocyclic ring having 1 to 4 hetero atoms selected

 $N,N'-C_6-C_{10}$ diarylaminocarbonyl group which may be substituted,

from the group consisting of oxygen atom, sulfur atom, and nitrogen atom, and having 5 to 10 ring-constituting atoms in total; or Ra and Rb together with the adjacent nitrogen atom form a 4 to 7 membered heterocyclic ring which may further contain 1 to 4 groups selected from an oxygen atom, a sulfur atom, N-Rc (wherein Rc represents a hydrogen atom, a C1-C4 alkyl group which may be substituted, an aralkyl group which may be substituted, C3-C8 cycloalkyl group which may be substituted or an aryl group which may be substituted, C1-C8 alkylcarbonyl group which may be substituted, C3-C8 cycloalkylcarbonyl group which may be substituted, aralkycarbonyl group which may be substituted, C6-C10 arylcarbonyl group which may be substituted, C1-C8 alkysulfonyl group which may be substituted, C3-C8 cycloalkylsulfonyl group which may be substituted, aralkysulfonyl group which may be substituted, C6-C10 arylsulfonyl group which may be substituted, C1-C8 alkyloxycarbonyl group which may be substituted, C3-C8 cycloalkyloxycarbonyl group which may be substituted, aralkyoxycarbonyl group which may be substituted, C6-C10 aryloxycarbonyl group which may be substituted, aminocarbonyl,

N-C1-C8 alkylaminocarbonyl group which may be substituted,
N, N'-C1-C8 dialkylaminocarbonyl group which may be substituted,
N-C1-C8 alkyl-N'-C3-C8 cycloalkylaminocarbonyl group which may be substituted,
N-C1-C8 alkyl-N'-aralkylaminocarbonyl group which may be substituted,
N-C1-C8 alkyl-N'-C6-C10 arylaminocarbonyl group which may be substituted,
C3-C8 cycloalkylaminocarbonyl group which may be substituted,
N,N'-C3-C8 dicycloalkylaminoycarbonyl group which may be substituted,
N-C3-C8 cycloalkyl-N'-aralkylaminocarbonyl group which may be substituted,

N-C₃-C₈ cycloalkyl-N'-C₆-C₁₀ arylaminocarbonyl group which may be substituted, aralkylaminocarbonyl group which may be substituted,

N,N'-diaralkylaminocarbonyl group which may be substituted,

N-aralkyl- N'-C6-C10 arylaminocarbonyl group which may be substituted,

C₆-C₁₀ arylaminocarbonyl group which may be substituted,

N,N'-C6-C10 diarylaminocarbonyl group which may be substituted,

or an optionally substituted heterocyclic ring having 1 to 4 hetero atoms selected from the group consisting of oxygen atom, sulfur atom, and nitrogen atom, and having 5 to 10 ring-constituting atoms in total),

a carbonyl group, a sulfinyl group or a sulfonyl group in the ring, and said 4 to 7 membered heterocyclic ring may optionally be fused with an aryl group which may be substituted;

X² represents a bond, a carbonyl group, a sulfinyl group, a sulfonyl group, an oxygen atom, a sulfur atom, a C₁-C₄ alkylene group which may be substituted or N-Rd (Rd represents a hydrogen atom, a C₁-C₄ alkyl group which may be substituted, an aralkyl group which may be substituted, C₃-C₈ cycloalkyl group which may be substituted,

C1-C8 alkylcarbonyl group which may be substituted,

C₃-C₈ cycloalkylcarbonyl group which may be substituted, aralkycarbonyl group which may be substituted,

C6-C10 arylcarbonyl group which may be substituted,

C1-C8 alkysulfonyl group which may be substituted.

C3-C8 cycloalkylsulfonyl group which may be substituted,

aralkysulfonyl group which may be substituted,

C6-C10 arylsulfonyl group which may be substituted,

C₁-C₈ alkyloxycarbonyl group which may be substituted.

C₈-C₈ cycloalkyloxycarbonyl group which may be substituted,

aralkyoxycarbonyl group which may be substituted,

C₆-C₁₀ aryloxycarbonyl group which may be substituted, aminocarbonyl,

N-C1-C8 alkylaminocarbonyl group which may be substituted,

N, N'-C1-C8 dialkylaminocarbonyl group which may be substituted,

N-C1-C8 alkyl-N'-C3-C8 cycloalkylaminocarbonyl group which may be substituted,

N-C1-C8 alkyl-N'-aralkylaminocarbonyl group which may be substituted,

N-C1-C8 alkyl-N'-C6-C10 arylaminocarbonyl group which may be substituted,

C3-C8 cycloalkylaminocarbonyl group which may be substituted,

N,N'-C3-C8 dicycloalkylaminoycarbonyl group which may be substituted,

N-C3-C8 cycloalkyl-N'-aralkylaminocarbonyl group which may be substituted,

N-C₃-C₈ cycloalkyl-N'-C₆-C₁₀ arylaminocarbonyl group which may be substituted, aralkylaminocarbonyl group which may be substituted,

N,N'-diaralkylaminocarbonyl group which may be substituted,

N-aralkyl- N'-C6-C10 arylaminocarbonyl group which may be substituted,

C6-C10 arylaminocarbonyl group which may be substituted,

N,N'-C6-C10 diarylaminocarbonyl group which may be substituted,

or an optionally substituted heterocyclic ring having 1 to 4 hetero atoms selected from the group consisting of oxygen atom, sulfur atom, and nitrogen atom, and

having 5 to 10 ring-constituting atoms in total);

m represents an integer of 1 to 3;

each Y independently represents a halogen atom, a hydroxy group, a cyano group, Y¹-Y³- wherein Y¹ represents a C₁-C₈ alkyl group which may be substituted; a C₃-C₈ cycloalkyl group which may be substituted or a C₆-C₁₀ aryl ring which may be substituted; Y³ represents a carbonyl group, a sulfinyl group, a sulfonyl group, an oxygen atom, a sulfur atom, a C₁-C₄ alkylene group which may be substituted or N-Re (Re represents a hydrogen atom, a C₁-C₄ alkyl group which may be substituted, an aralkyl group which may be substituted, C₃-C₈ cycloalkyl group which may be substituted or an aryl group which may be substituted,

C1-C8 alkylcarbonyl group which may be substituted,
C3-C8 cycloalkylcarbonyl group which may be substituted,
aralkycarbonyl group which may be substituted,
C6-C10 arylcarbonyl group which may be substituted,
C1-C8 alkysulfonyl group which may be substituted,
C3-C8 cycloalkylsulfonyl group which may be substituted,
aralkysulfonyl group which may be substituted,
C6-C10 arylsulfonyl group which may be substituted,
C1-C8 alkyloxycarbonyl group which may be substituted,
C1-C8 cycloalkyloxycarbonyl group which may be substituted,
C3-C8 cycloalkyloxycarbonyl group which may be substituted,
aralkyoxycarbonyl group which may be substituted,
C6-C10 aryloxycarbonyl group which may be substituted,
aralkyoxycarbonyl group which may be substituted,

N-C₁-C₈ alkylaminocarbonyl group which may be substituted,
N, N'-C₁-C₈ dialkylaminocarbonyl group which may be substituted,
N-C₁-C₈ alkyl-N'-C₃-C₈ cycloalkylaminocarbonyl group which may be substituted,
N-C₁-C₈ alkyl-N'-aralkylaminocarbonyl group which may be substituted,
N-C₁-C₈ alkyl-N'-C₆-C₁₀ arylaminocarbonyl group which may be substituted,
C₃-C₈ cycloalkylaminocarbonyl group which may be substituted,
N,N'-C₃-C₈ dicycloalkylaminoycarbonyl group which may be substituted,
N-C₃-C₈ cycloalkyl-N'-aralkylaminocarbonyl group which may be substituted,
N-C₃-C₈ cycloalkyl-N'-C₆-C₁₀ arylaminocarbonyl group which may be substituted,
aralkylaminocarbonyl group which may be substituted,

or an optionally substituted heterocyclic ring having 1 to 4 hetero atoms selected

N-aralkyl- N'-C6-C10 arylaminocarbonyl group which may be substituted,

C6-C10 arylaminocarbonyl group which may be substituted,

N,N'-C6-C10 diarylaminocarbonyl group which may be substituted,

from the group consisting of oxygen atom, sulfur atom, and nitrogen atom, and having 5 to 10 ring-constituting atoms in total),

n represents an integer of 0 to 8;

when X and Y or two Y groups are attached on the same carbon atom, they may combine to each other to form a C_2 - C_6 alkylene group; and when m is 1, n is 0, and X is X^1 -CO-,

- (1) X does not bind to 3-position of unsubstituted 1-piperazinyl group or does not bind to 3-position of a 4-alkyl-1-piperazinyl group; or
- (2) X does not bind to 3-position or 4-position of non-substituted 1-piperidinyl group.

According to another aspect of the present invention, there is provided a medicament comprising as an active ingredient a substance selected from the group consisting of the 3-substituted-4-pyrimidone derivatives represented by formula (I) and the physiologically acceptable salts thereof, and the solvates thereof and the hydrates thereof. As preferred embodiments of the medicament, there are provided the aforementioned medicament which is used for preventive and/or therapeutic treatment of diseases caused by tau protein kinase 1 hyperactivity, and the aforementioned medicament which is used for preventive and/or therapeutic treatment of neurodegenerative diseases.

As further preferred embodiments of the present invention, there are provided the aforementioned medicament wherein the diseases are selected from the group consisting of Alzheimer disease, ischemic cerebrovascular accidents, Down syndrome, cerebral bleeding due to cerebral amyloid angiopathy, progressive supranuclear palsy, subacute sclerosing panencephalitic parkinsonism, postencephalitic parkinsonism, pugilistic encephalitis, Guam parkinsonism-dementia complex, Lewy body disease, Pick's disease, corticobasal degeneration and frontotemporal dementia, vascular dementia, acute stroke and

traumatic injuries, brain and spinal cord trauma, peripheral neuropathies, retinopathies and glaucoma, non-insulin dependent diabetes (such as diabetes type II), and obesity, manic depressive illness, schizophrenia, alopecia, cancers such as breast cancer, non-small cell lung carcinoma, thyroid cancer, T or B-cell leukemia and several virus-induced tumors; and the aforementioned medicament in the form of pharmaceutical composition containing the above substance as an active ingredient together with one or more pharmaceutical additives.

The present invention further provides an inhibitor of tau protein kinase 1 comprising as an active ingredient a substance selected from the group consisting of the 3-substituted-4-pyrimidone derivatives of formula (I) and the salts thereof, and the solvates thereof and the hydrates thereof.

According to further aspects of the present invention, there are provided a method for preventive and/or therapeutic treatment of diseases caused by tau protein kinase 1 hyperactivity, which comprises the step of administering to a patient a preventively and/or therapeutically effective amount of a substance selected from the group consisting of the 3-substituted-4-pyrimidone derivatives of formula (I) and the physiologically acceptable salts thereof, and the solvates thereof and the hydrates thereof; and a use of a substance selected from the group consisting of the 3-substituted-4-pyrimidone derivatives of formula (I) and the physiologically acceptable salts thereof, and the solvates thereof and the hydrates thereof for the manufacture of the aforementioned medicament.

Best Mode for Carrying Out the Invention

In the present specification, each group has the following meanings.

The alkyl group used herein may be either linear or branched.

The C₁-C₁₂ alkyl group represented by R may be, for example, methyl group, ethyl group, n-propyl group, isopropyl group, n-butyl group, isobutyl group, sec-butyl group, tert-butyl group, n-pentyl group, isopentyl group, neopentyl group,

1,1-dimethylpropyl group, n-hexyl group, isohexyl group, or a linear or branched heptyl group, octyl group, nonyl group, decyl group, undecyl group or dodecyl group. Particularly preferred R is methyl group.

In the specification, when a functional group is defined as "which may be substituted" or "optionally substituted", the number of substituents as well as their types and substituting positions are not particularly limited, and when two or more substituents are present, they may be the same or different.

When the C₁-C₁₂ alkyl group represented by R has one or more substituents, the alkyl group may have one or more substituents selected from, for example, the groups consisting of a C₃-C₈ cycloalkyl group such as cyclopropyl group, cyclobutyl group, cyclopentyl group, cyclohexyl group, cycloheptyl group, cyclooctyl group; a C₁-C₅ alkoxy group such as methoxy group, ethoxy group, propoxy group, isopropoxy group, butoxy group, isobutoxy group, tert-butoxy group; C₁-C₈ alkylamino group or C₂-C₆ dialkylamino group; a C₆-C₁₀ aryl group such as phenyl group, 1-naphthyl group, and 2-naphthyl group.

The C₁-C₈ alkyl group may be, for example, methyl group, ethyl group, n-propyl group, isopropyl group, n-butyl group, isobutyl group, sec-butyl group, tert-butyl group, n-pentyl group, isopentyl group, neopentyl group, 1,1-dimethylpropyl group, n-hexyl group, isohexyl group, or a linear or branched heptyl group or octyl group.

The C₁-C₄ alkyl group may be, for example, methyl group, ethyl group, n-propyl group, isopropyl group, n-butyl group, isobutyl group, sec-butyl group or tert-butyl group.

The C_8 - C_8 cycloalkyl group may be, for example, cyclopropyl group, cyclobutyl group, cyclopentyl group, cyclohexyl group, cycloheptyl group or cycloctyl group.

The optionally partially hydrogenated C_6 - C_{10} aryl ring may be, for example a benzene ring, a naphthalene ring, an indan ring or a

1,2,3,4-tetrahydronaphthalene ring.

The heterocyclic ring having 1 to 4 hetero atoms selected from the group consisting of oxygen atom, sulfur atom, and nitrogen atom, and having 5 to 10 ring-constituting atoms in total may be, for example, furan ring, dihydrofuran ring, tetrahydrofuran ring, pyran ring, dihydropyran ring, tetrahydropyran ring, benzofuran ring, dihydrobenzofuran, isobenzofuran ring, benzodioxol ring, chromene ring, chroman ring, isochroman ring, thiophene ring, benzothiophene ring, pyrrole ring, pyrroline ring, pyrrolidine ring, 2-oxopyrrolidine ring, imidazole ring, imidazoline ring, imidazolidine ring, pyrazole ring, pyrazoline ring, pyrazolidine ring, triazole ring, tetrazole ring, pyridine ring, pyridine oxide ring, piperidine ring, 4-oxopiperidine ring, pyrazine ring, piperazine ring, homopiperazine ring, pyrimidine ring, pyridazine ring, indole ring, indoline ring, isoindole ring, isoindoline ring, indazole ring, benzimidazole ring, benzotriazole ring, tetrahydroisoquinoline ring, benzothiazolinone ring, benzoxazolinone ring, purine ring, quinolizine ring, quinoline ring, phthalazine ring, naphthyridine ring, quinoxaline ring, quinazoline ring, cinnoline ring, pteridine ring, oxazole ring, oxazolidine ring, isoxazole ring, isoxazolidine ring, oxadiazole ring, thiazole ring, benzothiazole ring, thiazylidine ring, isothiazole ring, isothiazolidine ring, benzodioxole ring, dioxane ring, benzodioxane ring, dithian ring, morpholine ring, thiomorpholine ring, or phthalimide ring.

The aralkyl group may be, for example, benzyl group, 2-phenylethyl group, 3-phenylpropyl group or 4-phenylbutyl group.

The C_1 - C_4 alkylene group may be, for example, methylene, ethylene, trimethylene or tetramethylene.

The 4 to 7 membered heterocyclic ring which may further contain 1 to 4 groups may be, for example, pyrrolidine, piperidine, morpholine, thiomorpholine, piperazine, homopiperazine, 2-oxopyrrolidine, pyrrole, imidazoline, imidazole, pyrazole, pyrroline, pyrrolidine, imidazolidine, imidazolone, succinimide or

glutarimide.

The C_6 - C_{10} aryl ring may be, for example, a benzene ring or a naphthalene ring, and the aryl group or the C_6 - C_{10} aryl group may be, for example, a phenyl group or naphthyl group.

When the ring represented by X or X1 has one or more substituents, the ring may have one or more substituents selected from the group consisting of a $C_1\text{-}C_5$ alkyl group such as methyl group, ethyl group, propyl group, isopropyl group, butyl group, isobutyl group, sec-butyl group, tert-butyl group, pentyl group, isopentyl group, neopentyl group, 1,1-dimethylpropyl group; C3-C6 cycloalkyl group such as cyclopropyl group, cyclobutyl group, cyclopentyl group, cyclohexyl group; a C3-C6 cycloalkyl-C1-C4 alkyl group such as cyclopropylmethyl, cyclopentylmethyl, cyclohexylmethyl; a C1-C4 hydroxyalkyl group such as hydroxymethyl, hydroxyethyl, hydroxypropyl; a halogen atom such as fluorine atom, chlorine atom, bromine atom, and iodine atom; a C1-C5 halogenated alkyl group such as trifluoromethyl group; hydroxyl group; cyano group; nitro group; formyl group; a benzene ring which may be substituted; a naphthalene ring which may be substituted; an optionally substituted heterocyclic ring having 1 to 4 hetero atoms selected from the group consisting of oxygen atom, sulfur atom and nitrogen atom, and having 5 to 10 ring-constituting atoms in total (same as the above); an amino group; an N- C3-C6 cycloalkyl-N-C1-C4 alkylaminoalkyl group wherein said C1-C4 alkyl may be substituted by hydroxy group or C1-C4 alkoxy group such as N-cyclopropyl-N-methylaminomethyl group, N-cyclohexyl-N-methylaminomethyl group; a C1-C5 monoalkylaminomethyl group such as methylaminomethyl group, ethylaminomethyl group, propylaminomethyl group, isoproylaminomethyl group, butylaminomethyl group, isobutylaminomethyl group, tert-butylaminomethyl group, pentylaminomethyl group, isopentylaminomethyl group; a C2-C10 dialkylaminomethyl group such as dimethylaminomethyl group, diethylaminomethyl group, ethylmethylaminomethyl group,

methylpropylaminomethyl group; pyrrolidinylmethyl group; piperidinylmethyl group; morpholinomethyl group; piperazinylmethyl group; pyrrolylmethyl group; imidazolylmethyl group; pyrazolylmethyl group; triazolylmethyl group; and a group of the formula -E-Rf wherein E represents O, S, SO, SO2, CO or N(R4) and Rf represents a C1-C5 alkyl group (same as the above), a C4-C7 cycloalkyl group (same as the above), a C4-C7 cycloalkylalkl group (same as the above), a C1-C5 hydroxyalkyl group (same as the above), a benzene ring which may be substituted, a naphthalene ring which may be substituted, an optionally substituted heterocyclic ring having 1 to 4 hetero atoms selected from the group consisting of oxygen atom, sulfur atom and nitrogen atom, and having 5 to 10 ring-constituting atoms in total (same as the above), an N-C3-C6 cycloalkyl-N-C1-C4 alkylaminoalkyl group (same as the above), a C1-C5 monoalkylaminoalkyl group (same as the above), C_2 - C_{10} dialkylaminoalkyl group (same as the above), pyrrolidinylmethyl group, piperidinylmethyl group, morpholinomethyl group, piperazinylmethyl group, pyrrolylmethyl group, imidazolylmethyl group, pyrazolylmethyl group or triazolylmethyl group,

C1-Cs alkylcarbonyl group which may be substituted,
C3-Cs cycloalkylcarbonyl group which may be substituted,
aralkycarbonyl group which may be substituted,
C6-C10 arylcarbonyl group which may be substituted,
C1-Cs alkysulfonyl group which may be substituted,
C3-Cs cycloalkylsulfonyl group which may be substituted,
aralkysulfonyl group which may be substituted,
C6-C10 arylsulfonyl group which may be substituted,
C1-Cs alkyloxycarbonyl group which may be substituted,
C1-Cs alkyloxycarbonyl group which may be substituted,
C3-Cs cycloalkyloxycarbonyl group which may be substituted,
aralkyoxycarbonyl group which may be substituted,
C6-C10 aryloxycarbonyl group which may be substituted,

aminocarbonyl,

N-C1-C8 alkylaminocarbonyl group which may be substituted,

N, N'-C1-C8 dialkylaminocarbonyl group which may be substituted,

N-C1-C8 alkyl-N'-C3-C8 cycloalkylaminocarbonyl group which may be substituted,

N-C1-C8 alkyl-N'-aralkylaminocarbonyl group which may be substituted,

N-C1-C8 alkyl-N'-C6-C10 arylaminocarbonyl group which may be substituted,

C3-C8 cycloalkylaminocarbonyl group which may be substituted,

N,N'-C3-C8 dicycloalkylaminoycarbonyl group which may be substituted,

N-C₈-C₈ cycloalkyl-N'-aralkylaminocarbonyl group which may be substituted,

N-C₃-C₈ cycloalkyl-N'-C₆-C₁₀ arylaminocarbonyl group which may be substituted, aralkylaminocarbonyl group which may be substituted.

N,N'-diaralkylaminocarbonyl group which may be substituted,

N-aralkyl- N'-C6-C10 arylaminocarbonyl group which may be substituted,

C6-C10 arylaminocarbonyl group which may be substituted,

N,N'-C6-C10 diarylaminocarbonyl group which may be substituted,

and R^4 represents a hydrogen atom, a C_1 - C_4 alkyl group which may be substituted, an aralkyl group which may be substituted, C_3 - C_8 cycloalkyl group which may be substituted or an aryl group which may be substituted,

C1-C8 alkylcarbonyl group which may be substituted,

C3-C8 cycloalkylcarbonyl group which may be substituted,

aralkycarbonyl group which may be substituted,

C6-C10 arylcarbonyl group which may be substituted,

C1-C8 alkysulfonyl group which may be substituted,

C₈-C₈ cycloalkylsulfonyl group which may be substituted,

aralkysulfonyl group which may be substituted,

C6-C10 arylsulfonyl group which may be substituted,

C1-C8 alkyloxycarbonyl group which may be substituted,

C3-C8 cycloalkyloxycarbonyl group which may be substituted,

aralkyoxycarbonyl group which may be substituted, C6-C10 aryloxycarbonyl group which may be substituted, aminocarbonyl,

N-C1-C8 alkylaminocarbonyl group which may be substituted,

N, N'-C1-C8 dialkylaminocarbonyl group which may be substituted,

N-C1-C8 alkyl-N'-C3-C8 cycloalkylaminocarbonyl group which may be substituted,

N-C1-C8 alkyl-N'-aralkylaminocarbonyl group which may be substituted,

N-C1-C8 alkyl-N'-C6-C10 arylaminocarbonyl group which may be substituted,

C₃-C₈ cycloalkylaminocarbonyl group which may be substituted,

N,N'-C3-C8 dicycloalkylaminoycarbonyl group which may be substituted,

N-C3-C8 cycloalkyl-N'-aralkylaminocarbonyl group which may be substituted,

 $N-C_3-C_8$ cycloalkyl- $N'-C_6-C_{10}$ arylaminocarbonyl group which may be substituted, aralkylaminocarbonyl group which may be substituted,

N,N'-diaralkylaminocarbonyl group which may be substituted,

N-aralkyl- N'-C6-C10 arylaminocarbonyl group which may be substituted,

 C_{6} - C_{10} arylaminocarbonyl group which may be substituted,

N,N'-C6-C10 diarylaminocarbonyl group which may be substituted,

or an optionally substituted heterocyclic ring having 1 to 4 hetero atoms selected from the group consisting of oxygen atom, sulfur atom, and nitrogen atom, and having 5 to 10 ring-constituting atoms in total.

When the C₆-C₁₀ aryl ring represented by Y¹ has one or more substituents, the ring may be substituted by one or more substituents selected from the groups consisting of halogen atoms, a C₁-C₅ alkyl group, a C₃-C₆ cycloalkyl group, a C₃-C₆ cycloalkyloxy group, a C₁-C₅ alkoxy group, a C₄-C₇ cycloalkylalkoxy, a C₁-C₅ alkylthio group, a C₁-C₅ alkylsulfonyl group, a C₁-C₅ halogenated alkyl, and a benzene ring.

When the ring represented by X, X^1 or Y^1 has one or more substituents, the substituent may further have one or more substituents selected from the group

consisting of a C1-C5 alkyl group such as methyl group, ethyl group, propyl group, isopropyl group, butyl group, isobutyl group, sec-butyl group, tert-butyl group, pentyl group, isopentyl group, neopentyl group, 1,1-dimethylpropyl group; C3-C6 cycloalkyl group such as cyclopropyl group, cyclobutyl group, cyclopentyl group, cyclohexyl group; a C3-C6 cycloalkyloxy group such as cyclopropyloxy group. cyclobutyloxy group, cyclopentyloxy group, cyclohexyloxy group; C1-C4 hydroxyalkyl group such as hydroxymethyl group, hydroxyethyl group, hydroxypropyl group, hydroxybutyl group; a C1-C5 alkoxy group such as methoxy group, ethoxy group, propoxy group, isopropoxy group, butoxy group, isobutoxy group, tert-butoxy group, pentyloxy group, and isopentyloxy group; a C4-C7 cycloalkylalkoxy group such as cyclopropylmethoxy group, cyclopentylmethoxy group; a C1-C5 alkylthio group such as methylthio group, ethylthio group, propylthio group, butylthio group, and pentylthio group; a C1-C5 alkylsulfonyl group such as methanesulfonyl group, ethanesulfonyl group, propanesulfonyl group, butanesulfonyl group, and pentanesulfonyl group; a halogen atom such as fluorine atom, chlorine atom, bromine atom, and iodine atom; a C1-C5 halogenated alkyl group such as trifluoromethyl group; a C1-C5 halogenated alkoxy group such as trifluoromethoxy group, 2,2,2-trifluoroethoxy group; hydroxyl group; cyano group; nitro group; formyl group; a C2-C6 alkylcarbonyl group such as acetyl group, propionyl group, butyryl group, and valeryl group; amino group; a C1-C5 monoalkylamino group such as methylamino group, ethylamino group, propylamino group, isopropylamino group, butylamino group, isobutylamino group, tert-butylamino group, pentylamino group, and isopentylamino group; a C2-C10 dialkylamino group such as dimethylamino group, ethylmethylamino group, diethylamino group, methylpropylamino group, and diisopropylamino group; a cyclic amino group such as pyrrolidinyl group, piperidino group, morpholino group; a C2-C10 monoalkylaminomethyl group such as methylaminomethyl group, ethylaminomethyl group, propylaminomethyl group, isoproylaminomethyl group, butylaminomethyl group, isobutylaminomethyl group,

tert-butylaminomethyl group, pentylaminomethyl group, isopentylaminomethyl; a $\mathbf{C}_{3}\text{-}\mathbf{C}_{11}$ dialkylaminomethyl group such as dimethylaminomethyl group, diethylaminomethyl group, ethylmethylaminomethyl group, methylpropylaminomethyl group; a phenyl group; an aralkyloxy group such as benzyloxy, 2-phenylethyloxy, 3-phenylpropyloxy; an aralkyloxycarbonyl group such as benzyloxycarbonyl, 2-phenylehoxycarbonyl; an C_2 - C_4 alkanoyloxy- C_1 - C_4 alkyl group such as acetyloxymethyl, 2-acetyloxyethyl, 2-propionyloxyethyl; an alkanoylamino group such as acetylamino, propionylamino, butyrylamino; N-C1-C4 alkyl-N-alkanoylamino group such as N-methyl-N-acetylamino, N-ethyl-N-acetylamino, N-methyl-N-propionylamino, N-methyl-N-butyrylamino; a heterocyclic ring amino group such as pyridylamino, pyrimidinylamino, thienylamino, furylamino; N-C1-C4 alkyl-N-heterocyclic ring amino group such as N-methyl-N-pyridylamino, N-methyl-N-pyrimidinylamino, N-methyl-N-thienylamino, N-methyl-N-furylamino; a diheterocyclic ring amino group such as dipyridylamino, dipyrimidinylamino, dithienylamino, difurylamino, and the like.

R may preferably be a C_1 - C_3 alkyl group, more preferably a methyl group or an ethyl group. The substituent of the alkyl group may preferably be a C_3 - C_8 alkyl group.

X may preferably be a benzene ring which may be substituted, a benzyl group which may be substituted, a naphthyl group which may be substituted, a benzofuran ring which may be substituted, a dihydrobenzofuran ring which may be substituted, a benzisoxazole ring which may be substituted, a benzisoxazole ring which may be substituted, a benzothiazole ring which may be substituted, a benzisothiazole ring which may be substituted, a benzisothiazole ring which may be substituted, and a benzopyrazole ring which may be substituted; more preferably a benzene ring which may be substituted, a benzyl group which may be substituted. Substituent of X may preferably be selected from the group consisting of a halogen

atom, a C₁-C₄ alkyl group, a C₁-C₄ alkoxy group, a hydroxy group, a nitro group, a cyano group, a perhalogenated C₁-C₄ alkyl group, a carboxyl group, a C₁-C₄ alkoxycarbonyl group, a C₁-C₄ alkylthio group, a C₁-C₄ alkoxysulfonyl group, amino group which may be substituted by a C₁-C₄ alkyl group, a benzene ring which may be substituted, and a cyclic amino group which may be substituted.

The compounds represented by the aforementioned formula (I) may form a salt. Examples of the salt include, when an acidic group exists, salts of alkali metals and alkaline earth metals such as lithium, sodium, potassium, magnesium, and calcium; salts of ammonia and amines such as methylamine, dimethylamine, trimethylamine, dicyclohexylamine, tris(hydroxymethyl)aminomethane, N,N-bis(hydroxyethyl)piperazine, 2-amino-2-methyl-1-propanol, ethanolamine, N-methylglucamine, and L-glucamine; or salts with basic amino acids such as lysine, δ -hydroxylysine, and arginine. When a basic group exists, examples include salts with mineral acids such as hydrochloric acid, hydrobromic acid, sulfuric acid, nitric acid, phosphoric acid; salts with organic acids such as methanesulfonic acid, benzenesulfonic acid, p-toluenesulfonic acid, acetic acid, propionic acid, tartaric acid, fumaric acid, maleic acid, malic acid, oxalic acid, succinic acid, citric acid, benzoic acid, mandelic acid, cinnamic acid, lactic acid, glycolic acid, glucuronic acid, ascorbic acid, nicotinic acid, and salicylic acid; or salts with acidic amino acids such as aspartic acid, and glutamic acid.

In addition to the 3-substituted-4-pyrimidone derivatives represented by the aforementioned formula (I) and salts thereof, their solvates and hydrates also fall within the scope of the present invention. The 3-substituted-4-pyrimidone derivatives represented by the aforementioned formula (I) may have one or more asymmetric carbon atoms. As for the stereochemistry of such asymmetric carbon atoms, they may independently be in either (R) and (S) configuration, and the pyrimidone derivative may exist as stereoisomers such as optical isomers, or diastereoisomers. Any stereoisomers in a pure form, any mixtures of stereoisomers,

racemates and the like fall within the scope of the present invention.

Preferred compounds of the present invention are represented by formula (II):

$$(X)_{p} \qquad (Y)_{r} \qquad (II)$$

wherein Q, R, X, Y are the same as those defined above; p is 0 or 1; q is 0 or 1; r is an integer of 0 to 6; p+q is 1 or 2;

and Z represents N or CZ^1 wherein Z^1 represents hydrogen atom or Y.

Examples of more preferred classes of compounds represented by formula (II) include:

- (1) those wherein R represents a C_1 - C_3 alkyl group which may be substituted by a C_3 - C_8 cycloalkyl group;
- (2) the compounds of the above (1) wherein R is methyl group or ethyl group; Y is in 3-, 4- or 5-position of the piperazine ring or the piperidine ring; p+q is 1; and r is an integer of 0 to 3;
- (3) the compounds of the above (2) wherein X is a C₁-C₈ alkyl group which may be substituted or a C₆-C₁₀ aryl ring which may be substituted; Y is a C₁-C₆ alkyl group which may be substituted; p is 1; q is 0; r is an integer of 0 to 3; and Z is N or CH; (4) the compounds of the above (3) wherein X is a benzene ring which may be substituted, a benzyl group which may be substituted; Y is a methyl group which may be substituted; Z is N and r is 0 or 1;
- (5) the compounds of the above (2) wherein X is a benzene ring which may be substituted, a benzyl group which may be substituted, a benzoyl group which may be substituted; Y is a methyl

group which may be substituted; Z is N and p is 0;

(6) the compounds of the above (2) wherein X is a C_1 - C_8 alkyl group substituted by a benzene ring which may be substituted or a benzene ring which may be substituted; Y is a hydroxy group, a cyano group, or Y¹-CO- wherein Y¹ is a C_1 - C_8 alkyl group; Z is CH or C-Y and r is 0 or 1; and

(7) the compounds of the above (6) wherein X is a benzyl group which may be substituted or a benzene ring which may be substituted; Y is a hydroxy group, a cyano group, or an acetyl group; Z is CH or C-Y and r is 0 or 1.

Examples of particularly preferred classes of compounds represented by formula (II) include:

- (1) those wherein R is methyl group, Y is CH₃O-CO- group or CH₃CH₂O-CO- group, Z is N, p is 0, q is 1, r is 0 or 1 and Y is in 3-position of the piperazine ring;
- (2) those wherein R is methyl group, Y is methyl group, benzyl group or acetyl group, Z is N, p is 1, q is 0, r is 0 or 1 and Y is in 4-position of the piperazine ring;
- (3) those wherein R is methyl group, Y is methyl group, Z is N, p is 1, q is 0, r is 1 to 3 and Y is in 3-, 4-, or 5-position of the piperazine ring;
- (4) those wherein R is methyl group, Y is hydroxyl group or cyano group, Z is CH, p is 1, q is 0, r is 0 or 1 and X and Y are attached on the same carbon atom;
- (5) those wherein R is methyl group, Y is hydroxyl group, cyano group or acetyl group, Z is C-Y, p is 0, q is 1 and r is 1.

Examples of preferred compounds of the present invention are shown in the tables below. However, the scope of the present invention is not limited to the following compounds.

Table-1						
		R ³ R ² N N N				
<u></u>	154	R ⁵ / R ⁶	72			
No.	R1 CH3-	R2 H	R3 H	R4 CH3-	R5 H	R6 H
XA2	CH3-	Н	Н	CH3CH2-	н	Н
XA3	CH3-	Н	Н	~\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	Н∙
XA4	CH3-	Н	Н	Y	н	н
XA5	снз-	H .	н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	н
XA6	СН3-	Н	н	人工	н .	н
XA7	СН3-	Н	н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н
8AX	снз-	н	н	7	н	Н
XA9	снз-	н	Н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	Н.
XA10	снз–	н	Н	Y~~`\	Н	Н
XA11	снз-	н	Н	人、	н	Н
XA12	снз-	н -	Н	7	н	Н
XA13	СН3-	Н	н	\\\\	н	Н
XA14	снз-	н	н	人へ、	Н	н
XA15	снз-	н	Н	~~~`\	н	Н
XA16	снз-	н	н	Y~~~	Н	н
XA17	СН3-	н	н	n-C8H17-	н	н
XA18	СН3-	Н	н	L	н	н
XA19	СН3-	н	Н		Н	Н
XA20	СН3-	н	н		н	Н
XA21	снз-	Н	Н		н .	н
XA22	снз-	н	н	\triangleright	н	н
XA23	снз-	н	н	\Diamond -I	Н	н
XA24	снз-	Н	н	\bigcirc - \downarrow	н	н
XA25	снз-	н	н		Н	Н

No.	R1	R2	R3	R4_	R5	R6
XA26	СН3-	н	н		Н	Н
XA27	СН3-	н	н	<u>□</u> -1	н .	Н
ЖА28	СН3-	Н	н	F-1	Н	Н
XA29	СН3-	н	н	F	н	н
XA30	СН3-	н	н	F-()-1	н	Ĥ
XA31	СН3-	Н	Н	CI →	н	Н
XA32	снз-	н	н	CI 	Н	н
XA33	снз-	н	н	C├ ─ }-{ .	н	н
- XA34	СН3-	н	н	Br	Н	н
XA35	CH3-	Н	н	Br. →	Н	Н
XA36	снз~	H	н	Br—⟨	Н	н
XA37	СН3-	н	Н		Н	н
XA38	СН3-	н	н	├	н	Н
XA39	снз-	н	н		н	н
XA40	снз-	н	н	CH₃	н	н
XA41	СН3-	Н	Н		н	Н
XA42	снз-	Н	н	H₃C-⟨ \	Н	Н
XA43,,	снз-	Н	Н	C ₂ H ₅ —{{}	н	н
XA44	снз-	Н	Н	n-C₃H ₇ {_}}-{	н	н
XA45	снз-	Н	н	n-C ₄ H ₉ {_}-{	Н	н
XA46	СН3-	Н	н	OH OH	н	н
XA47	СН3-	н	Н	HO —>—	н	н

No.	R1	R2 .	R3	R4	R5	R6
XA48	СН3~	Н	н	HO-{\bar{\bar{\bar{\bar{\bar{\bar{\bar	Н	Н
XA49	СН3-	н	н	OCH₃	н	н
XA50	СН3-	Н	н	H ₃ CO	Н	н
XA51	СН3-	н	Н	H ₃ CO-{}-{	Н	н
XA52	СН3-	Н	н	C ₂ H ₅ O-{}	Н	н
XA53	CH3-	Н	Н	n-C ₃ H ₇ O-{}-{	н	н
XA54	СН3-	Н	Н	n-C ₄ H ₉ O-	Н	н
XA55	СН3-	н	н	NO ₂	н	н
XA56	снз-	н	Н	O ₂ N	н	н
XA57	снз-	н	Н	O ₂ N-{	н	Н
XA58	СН3-	н	н	CN →	Н	Н
XA59	СН3-	Н	н	NC	Н	н
XA60	СН3-	н	н	NC-{}-{	н	Н
XA61	СН3-	н	н	CF ₃	Н	н
XA62	снз-	н	н	F ₃ C	н	н
XA63	снз–	н	Н	F ₃ C-{_}-{	н	Н
XA64	CH3-	н	Н	COOH	Н	Н
XA65	СН3	Н	н	HOOC	Н	н
XA66	снз-	н	Н	HOOC-{_}	Н	н
XA67	СН3-	Н	Н	CO ₂ Me	Н	н
XA68	СН3-	Н .	н	MeO ₂ C	Н	н
XA69	СН3-	н	Н	MeO ₂ C-{}	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA70	СН3-	н	н	CO ₂ Et	н	н
XA71	СН3-	н	н	EtO ₂ C	н	Н
XA72	снз-	н	н	EtO ₂ C-_\	Н	н
XA73	СН3	н	Н	SMe	н	н
XA74	снз-	н	н	MeS	н	н
XA75	снз-	Н	н	MeS-{_}-{	Н	н
XA76	СН3-	н	Н	SO₂Me	н	н
XA77	СН3-	н	Н	MeO₂S ⟨	Н	Н
XA78	СН3-	н	Н	MeO ₂ S-	н	н
XA79	CH3-	н	Н	NH ₂	н	н
XA80	СН3-	н .	н	H ₂ N	Н	н
XA81	СН3-	н .	н	H_2N-	н	Н
XA82	СН3-	H	н	NMe ₂	н	Н
XA83	СН3-	н	Н	Me ₂ N .	Н	н
XA84	СН3-	H .	н	Me ₂ N-{	н	н
XA85	СН3-	H	н		н	н
XA86	СН3-	н	Н	CC,	н	Н
XA87	СН3-	Н	Н	N N F	Н	н
88AX	СН3-	Н	н .	HN 🕽 🕌	Н	Н
XA89	СН3-	н	н	Or i	Н	Н
XA90	СН3-	н	н	67,	Н	Н
XA91	СН3-	н	н	(s)	Н	н

No.	R1	R2	R3	R4	los	150
XA92	СН3-	Н	н	\$7.	R5	R6
XA93	СН3-	Н	Н	HN	н	Н
XA94	СН3-	н	Н	ни	н	Н
XA95	СН3-	н	Н	HN HN	Н	,H
XA96	СН3-	н .	н	(N)	Н	н
XA97	СН3-	н	н	and,	Н	н
XA98	снз-	н	Н	\$\frac{1}{2},	Н	н
XA99	снз-	Н	н	N-O	Н .	н
XA100	снз-	н	Н	S _N ,	н	н.
XA101	снз–	Н	н	N=	Н	Н
XA102	СН3-	Н	Н	NS	н	н
XA103	СН3-	Н	Н	₽N O ✓	Н	н
XA104	СН3-	Н	н	Z Z	н	н
XA105	CH3-	н		N J	Н	Н
XA106	CH3-	н	н	S.	н	н
XA107	СН3-	H	н		н	н
XA108	СН3-	н	Н	N,S,	н	Н
XA109	СН3-	н	н		н .	Н
XA110	СН3-	н .	н		Н	н .
XA111	СН3-	Н	н		Н	Н
XA112	CH3-	Н	н		Н	Н
XA113	СН3-	Н	4	(_)_{	Н	1

No.	R1	R2	R3	R4	R5 .	R6
XA114	СН3-	н	Н	N=	н	н
XA115	СН3-	н .	н		н	н
XA116	снз-	н	н		н	н
XA117	СН3-	н	н		н	н
XA118	СН3-	н .	н		н	н _
XA119	СН3-	Н	н	,CT)	н	Н
XA120	СН3-	Н	Н		Н	н
XA121	СН3-	Н	н		н	н
XA122	СН3-	н .	н		Н	н
XA123	СН3-	H	н		Н	Н
XA124	СН3-	н	н	(CI)	Н	Н
XA125	снз-	Н	Н	(C),	Н	Н
XA126	СН3-	Н	н	Ţ,	Н	H ·
XA127 ·	снз-	н	н.		Н	н .
XA128	СН3-	Н	н .	CT;	Н	н
XA129	снз-	H .	н		н	н
XA130	снз-	Н	Н	T) S	н	Н
XA131	СН3-	Н	Н	, III	Н	н
XA132	СН3-	н	Н .	ÇÇ;	н ,	н
XA133	СН3-	Н	Н	CN.	н	н
XA134	СН3-	Н	н		н	Н
XA135	СН3-	Н	Н	TO THE	н	Н

No.	R1	R2	R3	R4	R5	R6
					100	RO
XA136	CH3-	Н	H	1 The Phy	H .	Н
XA137	СН3-	н	н	Ţŗ	н .	н
ХА138	снз-	н	Н		н	н
XA139	СН3-	Н	н	Č, N,	н .	н
XA140	СН3-	н	Н	, C z	н	H
XA141	снз-	н	Н		н	Н
XA142	снз-	н	н	Ž, N	н	Н
XA143	СН3-	н .	H	'CI'	н	Н
XA144	СН3-	н .	н	1. (I)	н	н
XA145	CH3-	Н	Н	<u>~</u> 3	н	н
XA146	снз-	Н .	н	(I)	Н	н
XA147	CH3-	Н .	Н	J.	Н	н
XA148	СН3~	н	Н	'T'S	Н	н
XA149 -	снз-	н	н	, CIS	Н	н
XA150	СН3-	Н	н	Ţ ^N _S	Н	н
XA151	снз-	Н	н	(T)	н	н
XA152	снз-	Н	н		Н	н
XA153	СН3-	Н	н	, CC	Н	н
XA154	СН3-	Н	н	KI),	Н	н
XA155	СН3-	Н	н	ČĽ%	Н	н
XA156	СН3-	Н	Н	CT,	н	н
XA157	СН3-	н	Н	ĈŢŅ	Н	н

No.	R1	R2	Inc			
140.	- \ 		R3	R4	R5	R6
XA158	CH3-	Н	н	TOTA	н	н
XA159	снз-	н	н	, CTSN	н	н
XA160	СН3-	Н	н	Ţ\$N	Н	н
XA161	снз-	Н	н	ر أن	н	н
XA162	снз-	н	н	For	Н	Н
XA163	СН3-	н	н	F-C-	Н	Н
XA164	снз-	Н	н		н	Н
XA165	снз-	Н	н	CIO	Н	н
XA166	СН3-	Н	Н	CI July	н	н
XA167	СН3-	н	н		н	н
XA168	СН3-	Н	н	Br O	Н	н
XA169	СН3-	н	Н	Br	Н	Н
XA170	СН3	н	н	i j	Н	Н
XA171	снз-	н	н	CHÓ	Н	н
XA172	снз-	Н	н	H ₃ C	н	н
XA173	СН3-	н	н		н	н
XA174	СН3-	н ,	н	CH3O O	н	н
XA175	снз-	Н	н	H ₃ CO	Н	н
XA176	СН3-	Н	н	H	Н	H
XA177	СН3-	Н	Н	NO.	Н	Н
XA178	снз-	н	н	O ₂ N	н	Н
XA179	СН3-	н	Н		Н	н

No.	R1	R2	R3	R4	R5	R6
XA180	снз-	н	н	R4 OHO	Н	Н
XA181	СН3-	н	Н	но	н	н
XA182	снз-	н	н	HO J.	н	н
XA183	снз-	Н	н	NHO NHO	H .	н
XA184	СН3-	Н	н	H ₂ N	Н	H
XA185	СН3-	н	н	HANG J.	н	н
XA186	CH3-	н	н	EN O	Н	Н
XA187	СН3-	н	н	NC C	н	Н
XA188	CH3-	н	н	NC J.	н .	Н
XA189	снз–	н	н	Qi,	н	н
XA190	снз–	Н	н		н	н
XA191	снз-	н .	н	, , , , , , , , , , , , , , , , , , ,	н	н
XA192	снз-	Н	н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н
XA193	СН3-	н	н	~ Hyr	Н	н
XA194	CH3-	н	н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н Н	н
_ XA195	СН3-	н	н.	A P	н	Н
XA196	СН3-	Н	н	~~\\rangle_{\rangle}	Н	н
XA197	СН3-	н	Н	→	н	н
XA198	СН3-	н	Н	~~~\\\	н	Н
XA199	СН3-	н	н	~~~~~,	н	н
XA200	СН3-	Н	Н	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	н	н
XA201	СН3-	н	н	√ ,	н	н

No.	R1	R2	R3	R4	R5	Inc
XA202	СН3-	н		Q .		R6
707202	U13-	n 	н .	Dy.	н	Н
XA203	СН3-	н	н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	н
XA204	СН3-	Н	н	~ i,	н	н
XA205	СН3-	H³CO,>	Н	Н	Н	Н
XA206	СН3-	H ₃ CO >	Н	СН3-	н	. H
XA207	снз-	H³CO, >-	Н	снзсн2-	н	н
XA208	СН3-	H3CO, >	Н	~\`\	н	н
XA209	снз-	H ₃ CO. >	Н	Y	н	н
XA210	СН3-	H ₃ CO >	Н	\\\\	н	н
,XA211	СН3-	H³CO,≻	н	L.	н	н
XA212	снз-	H³CO, h	Н	7	н	н
XA213	СН3-	H³CO_^⊁	Н	Y	н	Н
XA214	CH3-	H³CO_\^	н	^	н ·	н
XA215 .	снз-	H³CQ_^\	н	~~	н	н
XA216	CH3-	H³CO_^≻	Н	Xx	н	н
XA217	снз-	. H³CO, ≻.	Н	7	н	н
XA218	СН3-	H³CO, ≻	Н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н
XA219	СН3-	H³CO, ≻	н	1	Н	н
XA220	СН3-	H³CO_^≻	н	~~~``\	Н	Н
XA221	СН3-	O H₃CO ≻	Н	Y~~~`	Н	Н
XA222	СН3-	O H ₃ CO 'y	н	n-C8H17-	Н	н
XA223	СН3-	O H₃CO ≻	н	L~~~	н	н

No.	R1	R2	R3	R4	R5	R6
XA224	CH3-	H³CO_>.	н		Н	н
XA225	СН3-	H³CO ₁ ,	н		н	н
XA226	CH3-	H3CO >	н		Н	н
XA227	снз-	H3CO, 34	Н	$\triangleright \rightarrow$	н	н
XA228	СН3-	H3CO Y	н	\Diamond	Н	H
XA229	снз-	H₃CO Y	н		н	Н
XA230	снз-	H₃CO >	н	\bigcirc	н	Н
XA231	СН3-	H3CO_>	н		Н	н
XA232	CH3-	H³CO_≻	н	○	н	н
XA233	СН3-	н₃сой	н	F __	н	Н
XA234	CH3-	Н₃СО У	н	<u></u>	н	Н
XA235	снз-	H³CO∏≻	н	F-(н	н
XA236	CH3-	H³CQ_>	н	CI	н	н
XA237	СН3-	H₃CO →	н	CI	н .	Н
XA238	CH3-	H₃CO →	Н	c⊢∕_}₁	н	н
XA239	CH3-	· H³CO ≻	н	Br	н _.	н
XA240	СН3-	H3CO, >	н	Br.	н .	Н
XA241	снз-	H3CQ_x	н	Br- (){	н	Н
XA242	СН3-	H₃CO ≻	н	CH₃	н	н
XA243	СН3-	O H₃CO ≻	Н	H ₃ C	Н	Н
XA244	снз-	H ₃ CO >	н	H ₃ C-{	н	Н
XA245	СН3-	H₃CO ≻	Н	C ₂ H ₅ —{	н	Н

No.	R1	R2	R3	R4	R5	R6
XA246	СН3-	H³CO_}`^	н	n-C ₃ H ₇ {}{	н	н
XA247	СН3-	H³CO,≻	н	n-C ₄ H ₉ -	н	Н
XA248	снз-	H³CO,≻	н	OCH₃ <—>	Н	н
XA249	СН3-	H³CO,≻	н	H₃CO 	Н	н
XA250	СН3-	H₃CO >	н	H ₃ CO-{_}-{	н	Н
XA251	СН3-	H³CO_}\	н		Н	н
XA252	снз-	H³CO_≻	н	n-C ₃ H ₇ O-{_}-{	н	н
XA253	снз-	H³CO_>	н	n-C ₄ H ₉ O-{}_{{ }}-{ }	н	н
XA254	снз-	H³CO,≻	н	NO ₂	Н	Н
XA255	снз–	O H₃CO ≻	н	O ₂ N ·	Н	Н
XA256	снз-	O H₃CO ≻	н	O ₂ N-{}	н	н
XA257	снз-	H³CO,≻	н	CN	н	н
XA258	снз-	H³CO_≻	Н	NC →	Н	н
XA259	снз-	O H₃CO →	Н	NC-{}-{	Н	н
XA260	снз-	H³CO_≻	н	NMe ₂	н	н .
XA261	СН3-	H³CO_≻	н	Me ₂ N	н	н
XA262	снз-	H³CO, λ	н	Me ₂ N-{	Н	Н
XA263	снз-	H³CO, >	Н		Н	Н
XA264	СН3-	н₃соЧу	H	CCT'	н	н
XA265	снз-	H³CO_^^\	Н	O is	Н	н
XA266	СН3-	н₃со″≻	Н	Ŷi,	н	н
XA267	СН3-	H³CO, \	Н		Н	н

No.	R1	R2	R3	R4	R5	Inc
			1.0	10	140	R6
XA268	CH3-	H3CO, >	Н	R4 O J	н	Н
XA269	снз-	H³CO,≻	н	<u>,</u> ,	Н	н
XA270	снз-	C ₂ H ₅ O	н	н	н	н
XA271	СН3-	C ₂ H ₅ O	Н	CH3-	н	н
XA272	СН3-	C ₂ H ₅ O y	н	CH3CH2-	н	Н
XA273	СН3-	C₂H₅O →	н	^ \	Н	н
XA274	снз-	C ₂ H ₅ O ,	Н	Y	н	н
XA275	снз-	O C₂H₅O →	н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	н
XA276	СН3-	C ₂ H ₅ O >	н	人认	н	н
XA277	СН3-	C₂H₅O →	н	7	н	Н
XA278	СН3-	O C ₂ H ₅ O ->-	н	7	н	Н
XA279	СН3	C ₂ H ₅ O →	Н	^ \\\	Н	Н
XA280	CH3-	O C ₂ H ₅ O / >	H	Y~\`	Н	н
XA281	СН3-	C₂H₅O У	Н	Xx	н	Н
XA282	CH3-	O C ₂ H ₅ O ,	н	7	Н	н
XA283	CH3	C ₂ H ₅ O /	н	\\\\	н	н
XA284	СН3-	C ₂ H ₅ O >	Н		н	н
XA285	СН3-	O C ₂ H ₅ O // >	Н	^^\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	н
XA286	СН3-	C ₂ H ₅ O }	н	Y~~~	н .	н
XA287	СН3-	O C₂H₅O, y	Н	n-C8H17-	н	Н
XA288	СН3-	C ₂ H ₅ OH	н	人 ~~ ~~	н	н
XA289	СН3-	O C₂H₅O [™] ≻∕	Н	Q	н	н

No.	R1	R2	R3	R4	R5	R6
XA290	СН3-	C ₂ H ₅ O ¹ / ₂ /	н		н	Н
XA291	снз-	O C ₂ H ₅ O ,	н		н	н
XA292	СН3-	C ₂ H ₅ O →	н	D-1	н	н
XA293	снз-	O C ₂ H ₅ O >	н	\Diamond -1	н	н
XA294	СН3-	C ₂ H ₅ O ,	Н	\bigcirc	н	н
XA295	CH3-	C ₂ H ₅ O [™] >	Н	\bigcirc -1	н	н
XA296	СН3-	C ₂ H ₅ O [™] >-	н	\bigcirc	Н	н
XA297	СН3-	C ₂ H ₅ O ,	H		Н	н
XA298	СН3-	C ₂ H ₅ O y	Н	F	Н	н
XA299	СН3-	C ₂ H ₅ O	н	F	Н	н .
XA300	СН3-	C ₂ H ₅ O / /	Н	F-{}-{	н	н
XA301	СН3-	O C₂H₅O ✓	н	CI C>-1	Н	н
XA302	СН3-	C ₂ H ₅ O / y	н	Cī _>→	н	н
XA303	CH3-	O C₂H₅O ≻	Н	c -{	Н	н
XA304	СН3-	O C ₂ H ₅ O >	н	Br ∰-{	Н	н
XA305	CH3-	O C ₂ H ₅ O ~	н	Br.	н	н
XA306	СН3-	C ₂ H ₅ O ·	H	Br- (){	Н	Н
XA307	СН3-	C ₂ H ₅ O ^T , r O C ₂ H ₅ O ^T , r	н	CH ₃	Н	н
XA308	СН3-	O C ₂ H ₅ O >	н	H₃C 	н .	Н
XA309	СН3-	C ₂ H ₅ O >	н	H ₃ C-{}-{	н	Н
XA310	СН3-	0	н	C ₂ H ₅ -{{}	н	н
XA311	СН3-		н	n-C ₃ H ₇ {}_{}-{	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA312	СН3-	C ₂ H ₅ O,	н	n-C ₄ H ₉ {}	н	н
XA313	СН3-	C ₂ H ₅ O y	н	OCH ₃	Н	н
XA314	СН3-	C ₂ H ₅ O	Н	H₃CO 	н	н
XA315	снз-	C ₂ H ₅ O y	н	H ₃ CO-{}{	Н	н
XA316	СН3-	O C ₂ H ₅ O >	н	C ₂ H ₅ O-{{}}	н	Н
XA317	снз-	O. C ₂ H ₅ O 7	н	n-C ₃ H ₇ O-	Н	Н
XA318	снз-	O C₂H₅O →	н	n-C ₄ H ₉ O-	Н	н
XA319	СН3-	C ₂ H ₅ O -	н	NO ₂	Н	Н
XA320	СН3-	O C₂H₅O ≻	н	O ₂ N	H ·	Н
XA321	СН3	O C₂H₅O ≻	н	O ₂ N-{}	Н	Н
XA322	СН3-	O C₂H₅O ≻	н	CN	Н	н
XA323	CH3~	O C₂H₅O →	Н	NC	н	Н
XA324	снз–	O C₂H₅O [™] ≻	Н	NC-{}-{	н -	Н
XA325	снз-	C ₂ H ₅ O ·	Н	NMe ₂	н	Н
XA326	снз–	О С ₂ Н ₅ О У	н	Me ₂ N	н	н
XA327	CH3-	C ₂ H ₅ O	н	Me ₂ N-(н.	н
XA328	СН3-	O C₂H₅O У	н		Н	Н
XA329	Снз-	C ₂ H ₅ O >	н	CCC,	н	Н
XA330	снз–	O C ₂ H ₅ O	Н	O's	н	н
XA331	СН3-	O C ₂ H ₅ O	н	Qi,	н	н
XA332	СН3-	O C ₂ H ₅ O ->-	Н	OJ,	н	Н
XA333	снз-	C ₂ H ₅ O }	Н	, ,	Н	н

No.	R1	R2	R3	R4	R5	R6
XA334	снз-	O C₂H₅O →	н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	н
XA335	СН3-	СН3-	н	н	н	Н
XA336	СН3-	снзсн2-	н	н	н	н
XA337	CH3-	<u></u>	н	н	Н	н
XA338	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	н	Н	Н
XA339	CH3-	\\\	н	н	н	н
XA340	CH3-	人工	н	Н	н	Н
XA341	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	Н	Н	Н
XA342	CH3-	*	Н	Н	Н	Н
XA843	СН3-	\\\	Н	н	Н	н
XA344	снз-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	н	Н	н
XA345	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	н	Н	Н
XA346	снз-	\rightarrow	н	н	н .	Н
XA347	СН3-	\\\	Н	н	н .	Н
XA348	СН3-		н	н	н	н
XA349	снз-	^	н	н	н .	н
XA350	снз-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н	н .	Н
XA351	снз-	n-C8H17	н	н .	Н	Н
XA352	снз-		н	Н	Н	Н
XA353	снз-		Н	н .	н	Н
XA354	СН3-		н	н	н	н
XA355	СН3-		H	Н	Н	Н

No.	R1	R2	R3	R4	R5	IR6
XA356	снз-	\triangleright	н	н	н	н
XA357	снз-	\Diamond -1	н	Н	н	н
XA358	СН3-	\bigcirc	н	н	н	н
XA359	СН3-	$\bigcirc \dashv$	н	Н	н	н
XA360	СН3-	\bigcirc	н	Н	Н	Н
XA361	снз-	△ -}	н	н	Н	н
XA362	СН3-		н	Н	Н	н
XA363	СН3-	⊘ \$	н	Н	н	Н
XA364	СН3-	△	Н	Н	Н	Н
XA365	снз-	<u></u>	н	Н	н	Н
XA366	СН3-	F-(-)	н	Н	Н	н
XA367	СН3-	F-(>-{	н	H .	Н	Н
XA368	снз-	F—{\rightarrow}u.{	н	н	Н	н
XA369 .	СН3-	CI CI	н	н	н	Н
XA370	СН3-	CI	н	н	н	н
XA371	СН3-	C⊢ ()—{	н	н	н	н
XA372	CH3-	c⊢ ()—	н	Н	н .	Н
XA373	СН3-		н	Н	Н	Н
XA374	СН3-		Н	Н	Н	н
XA375	СН3-	Br. }	н	Н	Н	н
XA376	СН3-	Br-{_}_{	Н	Н	Н	н
XA377	СН3-	Br—()	Н	н	н	н

No.	R1	R2	R3	R4	R5	R6
XA378	снз-	Br—€\\\\	Н	н	Н	н
XA379	СН3~	<u>_</u>	н	Н	н	н
XA380	СН3-	<u></u>	Н	Н	Н	Н
XA381	СН3-		Н	Н	н	н
XA382	CH3-	CH ₃	н	Н	Н	Н
XA383	СН3-	H ₃ C.	н	н	н	н
XA384	СН3-	H ₃ C-{}	н	Н	Н	н
XA385	СН3-	C ₂ H ₅ -{}-{	н	Н	н	н
XA386	СН3-	n-C ₃ H ₇ -{}-{	н	н	Н	Н
XA387	снз-	n-C ₄ H ₉ —{}	н	н	Н	Н
XA388	СН3-	OH	Н	H .	Н	н
XA389	СН3-	HO	Н	Н	Н	н ,
XA390	СН3-	HO-{-}	н	Н	Н	Н
XA391	СН3-	OCH ₃	Н	Н	Н	н
XA392	СН3-	H ₃ CO	н	н	Н	н
XA393	СН3-	H ₃ CO-{{}	н	Н	н	н
XA394	СН3-	H3CO-{_}-{	н	Н	н	н
XA395	СН3-	H ₃ CO-{_}\\\	Н	Н	Н	н
XA396	СН3-	OC ₂ H ₅	Н	Н	Н	Н
XA397	СН3	C ₂ H ₅ O	н	н	н	Н
XA398	СН3-		Н	Н	Н	н
XA399	СН3-	n-C ₃ H ₇ O-	Н	н	н	Н

No.	R1	R2	R3	R4	R5	R6
XA400	СН3-	n-C ₄ H ₉ O-	н	н	Н	н
XA401	СН3-	NO ₂	н	н	н	н
XA402	снз-	O ₂ N	н	н	н	Н
XA403	СН3-	O ₂ N-{}	Н	Н	н	Н
XA404	СН3-	CN	Н	Н	Н	Н
XA405	СН3-	NC	Н	Н	н	Н
XA406	снз-	NC-{}	н	Н	Н	Н
XA407	СН3-	CF ₃	н	н	н	Н
XA408	снз-	F ₃ C	н	н	Н	н
XA409	СН3-	F ₃ C-{	н	н	н	н
XA410	снз-	COOH	н	н	н	н
XA411	СН3-	HOOC.	н	н	н	Н
XA412	снз-	HOOC-{_}-{	н	н	н	Н
XA413	СН3-	CO ₂ Me	Н	н	Н	Н
XA414	CH3-	MeO ₂ C	н	н	н	н
XA415	снз-	MeO ₂ C-{}	н·	н .	н	н
XA416	СН3	CO ₂ Et	н	н	Н	н
XA417	СН3-	EtO ₂ C	н	н	н	Н
XA418	снз-	1	Н	Н	н	н
XA419	снз-	<u></u>	Н	Н	н	H
XA420	снз-	MeS	Н	н	н	н
XA421	СН3-	MeS-{	н	н	Н	н

No.	R1	R2	R3	R4	R5	R6
		,SO ₂ Me		104		RO
XA422	СН3-	<u></u>	H	Н	Н	Н
XA423	снз-	MeO ₂ S	н	н	Н	н
XA424	снз-	MeO ₂ S-{}{	н	н	н	н
XA425	снз-	NH ₂	Н	н	н	Н
XA426	СН3-	H ₂ N	Н	н	н	н
XA427	снз-	H_2N-	н	н	н	Н
XA428	CH3-	NMe ₂	Н	н	н	Н
XA429	СН3-	Me ₂ N	н	н	н	н
XA430	СН3-	Me ₂ N—(н	Н	н	н
XA431	СН3-	CN-S	H,	Н	Н	н
XA432	СН3-	CN-C)	Н	Н	Н	н
XA433	СН3	_N-{_}-1	Н	Н	Н	Н
XA434	СН3- ·		Н	н .	Н	н
XA435	СН3-	O-Q	Н	н	Н	Н
XA436	снз-	_v-{_}-;	н	н	н	н
XA437	снз–		Н	н	н	Н
XA438	СН3-	< <u></u>	Н	н	н	Н
XA439	СН3-	○ \-(> -\	н	н	н	Н
XA440	СН3-	H₃CN_N-⟨S	Н	н	Н	н
XA441	СН3-	H ₃ CN N-	н	н	н	н
XA442	CH3-		н	Н	Н	н
XA443	СН3-	H ₃ C CH ₃	Н	Н	Н	н

No.	R1	R2	R3	R4	R5	R6
XA444	СН3-	CH₃ H₃C-⟨¯)∕−}	Н	н	Н	н
XA445	СН3-	CH₃	н	н	Н	Н
XA446	СН3-	CH₃ CH₃	н	н	н	Н
XA447	СН3-	H₃C H₃C-⟨}-{	Н	Н	Н	Н
XA448	СН3-	H₃C H₃C	Н	н	н	н
XA449	СН3-	F_F	н	н	Н	H·
XA450	СН3-	F——F	н	н	Н	Н
XA451	СН3-	F F	Н	н	Н	н
XA452	СН3-	F	н	н	Н	н
XA453	СН3-	F———	н	н	н	н
XA454	сйз-	F F	н	H H	Н	Н
XA455	СН3-		Н	Н	Н	н
XA456	СН3-	CI—⟨SH	Н	Н	Н	Н
XA457	СН3-	cı′	н	Н	Н	Н
XA458	СН3-	a	Н	Н	н	н
XA459	СН3-	CI———	Н	Н	н	н

No.	R1	R2	R3	R4	R5	R6
XA460	СН3-	_ CI CI	Н	Н	н	H
XA461	СН3-	H₃CO_OCH₃	Н	н	н	Н
XA462	СН3-	H ₃ CO-	Н	н	Н	Н
XA463	СН3-	OCH ₃ H ₃ CO	Н	н	н	Н
XA464	СН3	ОСН₃	н	н	н	н
XA465	СН3-	H₃CO-⟨¯¯⟩;	Н	Н	Н	н

No.	R1	R2	R3	R4	R5	los
XA466	СН3-	H₃CO H₃CO	н	н	Н	R6 H
XA467	СН3-	F_OCH ₃	н	н	н	н
XA468	СН3-	OCH ₃	Н	н	Н	Н
XA469	СН3	OCH ₃	Н	Н	н	н .
XA470	СН3	OCH ₃ F—∑i{	н	Н	Н	н
XA471	СН3-	OCH₃ F	Н	Н	Н	Н
XA472	CH3-	OCH ₃ F	Н	Н	Н	Н
XA473	СН3-	H₃CO F—	Н	Н	Н	Н
XA474	СН3-	H₃CQ F	Н	н	Н	н
XA475	СН3-	H₃CO_F	н	н	н	н
XA476	СН3-	H₃CO-{=}F	н	н	Н	н
XA477	снз~	H₃CO F	н	н	Н	Н
XA478	СН3-		н	Н	Н	Н
XA479	СН3-	CI_OCH₃	Н	Н	н	Н
XA480	СН3-	_ •	Н	Н	Н	н
XA481	СН3-	OCH ₃	Н	Н	н	Н

No.	R1	R2	R3	R4	R5	R6
XA482	СН3-	OCH₃ Ci	н	н	H	Н
XA483	СН3-	H₃CO CI—	Н	н	Н	н
XA484	СН3-	H₃CQ CI	Н	Н	Н	н
XA485	CH3~	H₃CO_CI	Н	н	н	Н
XA486	СН3~	H ₃ CO-	Н	н	Н	Н
XA487	СН3-	H ₃ CO	Н	Н	н	н

No.	R1	R2	R3	R4	R5	R6
XA488	СН3-	CI H ₃ CO-	Н	н	н	Н
XA489	СН3-	F_CH ₃	н	Н	Н	Н
XA490	СН3-	CH ₃	Н	н	Н	Н
XA491	СН3-	CH ₃ F	н	Н	Н	н
XA492	СН3-	CH₃ F	н	Н	Н	н
XA493	CH3-	H ₃ C F——}	н	н	Н	Н
XA494	СН3-	H₃C ↓ F	н	Н	Н	Н
XA495	СН3-	H₃C _F	Н	Н	Н	Н
XA496	CH3-	H₃C-⟨¯¯ <mark></mark> F	Н	Н	Н	Н
XA497	СН3-	H ₃ C	Н	н	н	Н
XA498	СН3-	F H₃C-	Н	н	Н	н
XA499	СН3-	~ '	н	Н	н	н
XA500	СН3-	OCH ₃ Br—⟨¯)→;	Н	Н	Н	н
XA501	СН3-	Br	н	Н	Н	н
XA502	СН3-	Br	н	Н	Н	Н
XA503	СН3-	H₃CQ Br—(Н	Н	н	Н

No.	R1	R2	R3	R4	R5	R6
XA504	СН3-	H₃CQ Br	Н	н	н	Н
XA505	СН3-	H ₃ CO_Br	н	н	Н	Н
XA506	СН3-		Н	н	Н	н
XA507	снз-	Br → H₃CO	Н	Н	Н	Н
XA508	СН3-	Br. H₃CO-⟨	н	н	Н	Н
XA509	СН3-	H₃CO_}`	Н	н .	Н	Н

No.	R1	R2	R3	R4	R5	Inc
		OCH ₃	11.0	174	IND	R6
XA510	СН3-	CN-CH.	Н	н	н	н
XA511	СН3-		н	н	H.	Н
XA512	СН3-	H₃CO →	н	н	Н	н
XA513	СН3-	H ₃ CO N-\\\	н	н	Н	н
 XA514	CH3-	OCH3	Н	Н	Н	Н
XA515	СН3-	F-(-)- F	Н	н	н	Н
XA516	СН3-	OCH₃ F—{ F	Н	Н	Н	н
XA517	СН3	H₃CO-(∑F F	н	н	н	н
XA518	СН3-	OCH ₃ F—∕—∤ OCH ₃	Н	н	н	н
XA519	СН3-	OCH₃ H₃CO-⟨□>→ OCH₃	Н	н	н	н
XA520	СН3-	CI—CI	Н	н	н	н
XA521	снз-	OCH ₃ CI—{ CI	н	н	н	Н
XA522	СН3-	H₃CO-⟨∑-; CI	н	Н	Н	Ħ
XA523	СН3-	OCH ₃	Н	Н	Н	н

No.	R1	R2	R3	R4		
XA524	снз-	OCH ₃ OCH ₃ OCH ₃	Н	Н	R5	R6 H
XA525	СН3-	OCH ₃	Н	Н	н	Н
XA526	CH3-	H ₃ CO	н	Н	Н	н
XA527	снз-	H ₃ CO-{\}-{\}-{	н	н .	н	н
XA528	снз-	OCH ₃ \t	Н	н	н	Н
XA529	СН3-	H₃CQ	н	Н	н	Н
XA530	СН3-	H₃CO- ⟨	н	Н	Н	н
XA531	CH3-	OCH ₃	Н	н ·	н	н

No.	R1	R2	R3	R4	1	
		H₃CQ_		17.4	R5	R6
XA532	СН3-		Н	н	н	Н
XA533	СН3-	H₃CO-⟨	Н	Н	Н	Н
XA534	СН3-		н	Н	н	н
XA535	СН3-		н	н	н	Н
XA536	СН3-	F-(Н	н	н	н
XA537	снз–		н	Н	Н	н
XA538	СН3-		Н	Н	Н	н
XA539	СН3-		н	н	Н	Н
XA540	СН3-		Н	Н	н	Н
XA541	СН3-		н	Н	Н	Н
XA542	СН3-	F-CD-CD	н	н .	Н	н
XA543	СН3-		Н	Н	Н	Н
XA544	СН3-		Н	Н	Н	Н
XA545	СН3~	N H	Н	н	Н	Н
XA546	СН3-	HN	Н	Н	н	Н
XA547	СН3-	On the second	Н	Н	н	Н

No.	R1	R2	R3	R4	Toe-	7
XA548	СН3-	07	Н	Н	R5 H	R6 H
XA549	СН3-	S	Н	н	Н	Н
XA550	CH3-	\$7,	н	н	н	н
XA551	СН3-	HNN	н	н	н	Н
XA552	СН3-	HN S	Н	Н	Н	Н
XA553	СН3-	HN /-	н	Н	н	н

No.	R1	R2	R3	R4	R5	R6
XA554	СН3-	N. Y	Н	н	Н	Н
XA555	СН3-	QNZ,	Н	н	н	Н
XA556	СН3-	N-2,	Н	н	н	н
XA557	СН3-	N-O	Н	н	Н	н
XA558	снз–	S _N	н	н	н	Н
XA559	снз-	S.J.	н	Н	Н	Н
XA560	СН3-	N-S	н	Н	н	Н
XA561	снз-	S=N O, →,	Н	Н	н	н
XA562	СН3-	O Y	н	н .	Н	н
XA563	СН3-		Н	Н	н	н
XA564	снз-	1 ' 1	н	Н	н	н
XA565	снз-	S	Н	Н	н	Н
XA566	СН3-	N ,	н	Н	Н	Н
XA567	СН3-		н.	Н .	н	Н
XA568	СН3-		н	Н	Н	н
XA569	СН3-	N	Н	н .	Н	H
XA570	СН3-	€N-1	н	Н	Н	н
XA571	СН3-		Н	Н .	Н	н .
XA572	СН3-	N-\	н	н	Н	Н
XA573	СН3-		Н	н	Н	Н
XA574	СН3-	₩ N	Н	н	Н	н
XA575	снз-		1 1	1	Н	н

No.	R1	R2 ·	R3	R4	R5	R6
XA576	СН3-		н	н	Н	н
XA577	снз-	,CI)	Н	н	Н	н
XA578	снз-		н	Н	Н	Н
XA579	снз-		Н	Н	н	н
XA580	снз-		н	н	Н	H
XA581	СН3-	Ö;	Н	н	Н	Н
XA582	СН3-	'03	Н	Н	Н	Н
XA583	СН3-	,CI	н	н	н	н
XA584	СН3-	Ţ?	Н	Н	Н	н
XA585	СН3-	(T)	н	н	Н	н
XA586	CH3-		н	Н	Н	Н
XA587	СН3-		н	Н	н	Н
XA588	СН3-	TIS .	Н	Н	н	Н
XA589	СН3-	,CIS	н	Н	н	н
XA590	снз-	Ĉ.	н	н	н	Н
XA591	снз-		н	н	н	Н
XA592	снз-	- Z	Н	н	н ,	H
XA593	СН3-		Н	H	Н	Н
XA594	СН3	'CL'h	н	Н	Н	Н
XA595	снз–	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	н	Н	н
XA596	снз-	(CTN) NATION TO THE PROPERTY OF THE PROPERTY	Н	н	Н	Н
XA597	СН3-		н	н	Н	н

No.	RI	R2	R3	R4	R5	R6
XA598	снз-	TON N	н	н	н	Н
XA599	снз-		Н	Н	н	Н
XA600	снз-	Č.	Н	Н	Н	Н
XA601	снз-	* (C)	н	Н	н	Н
XA602	снз–	, (I)	н	H	Н	H
XA603	СН3-		Н	н	н	н
XA604	СН3-	(); Siri	Н	н	н	н
XA605	снз-	Ţ,	Н	Н	Н	н
XA606 .	снз-	'CI'S	Н	Н	Н	Н
XA607	СН3-	v CIS	н	н	Н	Н
XA608	снз-	ÇÎ,	Н	н	н	Н
XA609	СН3-		н	н	н	Н
XA610	СН3-		Н	Н	н	н
XA611	СН3-		н	н	Н	Н
XA612	СН3-		н	Н	Н	Н
XA613	СН3-		н	н	Н	Н
XA614	СН3-		Н	Н	н	Н
XA615	CH3-		н	Н .	Н	н
XA616	СН3-	"CT3"	н	н	Н	H
XA617	СН3-	, ITH	Н	Н	Н	н
XA618	СН3-	Ţş ⁿ	Н	Н	Н	Н
XA619	СН3-	Çr,	Н	н	н ,	н

No.	R1	R2	R3	R4	R5	R6
XA620	снз-	,CC	Н	Н	Н	Н
XA621	снз-	TOO:	н	н	Н	Н
XA622	СН3-	Č;	н	н	Н	н
XA623	снз-	СН3-	н	СНЗ	Н	Н
XA624	снз-	СН3СН2-	н	СНЗ	н	H H
XA625	СН3-	∼ `\	Н	CH3	н	Н
XA626	снз~	Y	Н	СН3	Н	Н
XA627	снз-	~~ ` .	н	СНЗ	н	н
XA628	снз-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	СНЗ	н	н
XA629	СН3-	~~	Н	СНЗ	н	н
XA630	СН3-	7	н	СНЗ	н	Н
XA631	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	СНЗ	Н	н
XA632	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	СНЗ	Н	н
XA633	СН3-	人人	н	СНЗ	н	н
XA634	СН3-	7	н	СНЗ	н	Н
XA635	снз-	\\\\	H .	СНЗ	н	Н
XA636	снз-		н	СНЗ	н	н
XA637	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	СНЗ	Н	Н
- XA638	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	СНЗ	н .	н
XA639	СН3-	n-C8H17-	н	СНЗ	н	н
XA640	СН3-	L	н	СНЗ	Н	Н
XA641	СН3	Q	Н	СНЗ	Н	н

No.	R1	R2	R3	R4	R5	R6
XA642	СН3-		н	снз	н	Н
XA643	СН3-		н	снз	н	Н
XA644	снз-	$\triangleright \dashv$	Н	СНЗ	н	н
XA645	СН3-	\Diamond	н	СНЗ	н	н
XA646	снз-		н	СНЗ	Н	Н
XA647	СН3-	\bigcirc - \downarrow	н	СНЗ	Н	н
XA648	СН3-	\bigcirc	Н	снз	Н	н
XA649	снз-		н	СНЗ	Н	Н
XA650	СН3-		Н	СНЗ	Н	Н
XA651	СН3-		н	СНЗ	Н	Н
XA652	CH3-	F —	н	СНЗ	Н	Н
XA653	СН3-	F	Н	СНЗ	Н	Н
XA654	СН3-	F-{_}-{	н	СНЗ	н	н
XA655 ·	СН3-	F-(-)(-)	Н	снз	н	Н
XA656	СН3	F— ()ın∢	н	СНЗ	н	н
XA657	СН3-	CI	Н	СНЗ	Н	н
XA658	СН3-	Cī →	н	СНЗ	н	Н
XA659	СН3-	c⊢ (){	Н	СН3	н ·	Н
XA660	СН3	C⊢ ()—(н	СНЗ	н .	н
XA661	снз-	C⊢ ∕ _>∾{	Н	СНЗ	Н	н
XA662	снз-	Br	н	СНЗ	Н	н
XA663	СН3-	Br.	Н	СНЗ	Н	н

No.	R1	R2	R3	R4	R5	Too
			110	17.4	- RO	R6
XA664	СН3-	Br-{_}}-{	Н	СНЗ	Н	н
XA665	снз-	Br—⟨\	н	СНЗ	н	н
XA666	СН3-	Br⊸€∑m≰	н	СНЗ	Н	Н
XA667	снз-	△	Н	СНЗ	н	Н
XA668	снз-		н	СНЗ	Н	H
XA669	СН3-	 - -	Н	СНЗ	н	н
XA670	снз-	CH₃	н	СНЗ	Н	Н
XA671	снз-	H ₃ C	н	СН3	н	н
XA672	СН3⊸	H ₃ C-{_}	н	СНЗ	н	Н
XA673	снз-	. C ₂ H ₅ {	н	СНЗ	Н	н
XA674	снз-	n-C ₃ H ₇ {}	н	СНЗ	н	Н
XA675	СН3-	n-C ₄ H ₉ -{	н	СНЗ	н	н
XA676	СН3-	ОН	Н	СНЗ	н .	н
XA677 ·	снз-	HO HO	Н	снз	н	н
XA678	СН3-	HO-{_}-}	н	СНЗ	Н	н
XA679	СН3	OCH ₃	н	СНЗ	н	н
XA680	СН3-	H ₃ CO	н	СНЗ	Н	Н
XA681	СН3-	H ₃ CO-{{{1}}	н	СН3	Н	Н
XA682	снз-	H ₃ CO-{_>-	н	СНЗ	Н	Н
XA683	СН3-	H ₃ CO-{_}\{	н	СНЗ	н	Н
XA684	СН3-	OC ₂ H ₅	Н	снз	Н	Н
XA685	снз-		Н	СНЗ	Н	н

No.	R1	R2	R3	R4	R5	R6
XA686	СН3-	C ₂ H ₅ O-{{}	Н	CH3	н	н
XA687	СН3-	n-C ₃ H ₇ O-	н	СНЗ	Н	н
XA688	СН3-	n-C ₄ H ₉ O-	н	СНЗ	Н	н
XA689	снз-	NO ₂	н	СНЗ	н	Н
XA690	снз-	O ₂ N	н	СНЗ	Н	Н
XA691	снз-	O ₂ N-{}	Н	СН3	Н	н
XA692	снз-	CN	н	СН3	H	Н
XA693	СН3-	NC - D	н	СН3	н	Н
XA694	снз-	NC-{}	н	СНЗ	Н	н
XA695	СН3-	CF ₃	H.	СНЗ	Н	н
XA696	снз–	F ₃ C	н	СНЗ	Н	н
XA697	СН3-	F ₃ C-{}	н	СНЗ	Н	Н
XA698	снз-	СООН	Н	СНЗ	Н	н
XA699	снз-	HOOC	н	СНЗ	Н	Н
XA700	СН3-	HOOC-{_}-	н	СНЗ	Н	Н
XA701	снз-	CO₂Me	н	СНЗ	Н	Н
XA702	СН3-	MeO ₂ C	Н	CH3	Н	Н
XA703	снз-	MeO ₂ C-	Н	CH3	Н .	Н
XA704	СН3-	CO₂Et	н	СНЗ	Н	Н
XA705	СН3-	EtO ₂ C	н	СНЗ	н	Н
XA706	снз-	EtO ₂ C-{}	Н	СНЗ	н	Н
XA707	СН3	SMe	Н	СНЗ	н	Н

No.	R1	R2	R3	R4	R5	Inc
		MeS		1117		R6
XA708	СН3-		Н	СНЗ	н	Н
XA709	снз-	MeS-{_}-{	Н	СНЗ	н	н
XA710	снз-	SO ₂ Me	н .	СНЗ	н	н
XA711	снз-	MeO ₂ S	н	СНЗ	Н	н
XA712	снз-	MeO ₂ S-	н	СНЗ	н	Н
XA713	снз-	NH ₂	н	СНЗ	Н	Н
XA714	CH3-	H ₂ N	Н	СНЗ	н	Н
XA715	СН3-	H ₂ N-	н	СНЗ	н	н
XA716	СН3-	NMe ₂	н	СНЗ	Н	н
XA717	снз-	Me ₂ N	н	СН3	н	Н
XA718	СН3-	Me ₂ N-	н	СН3	н	н
XA719	СН3-	CN-S	н	СНЗ	н	Н
XA720	СН3-	(N-()	н	СНЗ	н	Н
XA721 -	снз-	_N-{_}-1	Н	СНЗ	н	н
XA722	снз-		Н	СНЗ	Н	н
XA723	снз		н	СНЗ	н	н
XA724	снз-	\(\n^_\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	снз	Н	н
XA725	СН3-		Н	СНЗ	Н	н
XA726	СН3-		Н	СНЗ	н	Н
XA727	снз-	< <u></u> √-1	н	СНЗ	н	н
XA728	снз-	H3CN N-	н	снз	н	н
XA729	СН3-	H₃CN_N-⟨_}	н	СНЗ	Н	н

No.	R1	R2	R3_	R4	R5	R6
110.	, , , , , , , , , , , , , , , , , , ,	1142	110	174	NJ	מא
XA730	СН3-	H3CN N-	н	СНЗ	н	Н
XA731	СН3-	H₃C_CH₃	Н	СНЗ	Н	Н
XA732	СН3-	CH ₃ H ₃ C-⟨¯⟩−}	н	снз	H .	Н
XA733	СН3-	CH ₃	Ĥ	снз	н	н
XA734	СН3-	CH₃ CH₃	Н	снз	н	Н
XA735	CH3-	H ₃ C H ₃ C-{-}-}	Н	СНЗ	н	Н
XA736	СН3-	H ₃ C	Н	снз	н	Н
XA737	СН3-	F-F	Н	СНЗ	Н	Н
XA738	СН3-	F-{-}-;	Н	СНЗ	Н	Н
XA739	СН3-	F F	н	СНЗ	Н	н
XA740	CH3-	F F	Н	снз	н	Н
XA741	СН3-	F——	Н	снз	н	Н
XA742	СН3-	F	H	снз	н	н
XA743	СН3-	CI_CI	Н	снз	Н	Н
XA744	СН3-	CI—CI	н	СН3	н	н

No.	R1	R2	R3	R4	R5	les .
XA745	СН3-	CI	Н	СНЗ	Н	R6 H
XA746	СН3-	CI	н	СНЗ	Н	н
XA747	СН3-	CI———	Н	СНЗ	Н	н
XA748	СН3-	CI CI	Н	СНЗ	Н	Н
XA749	СН3-	H ₃ CO_OCH ₃	н	СНЗ	н	н
XA750	СН3-		н	СНЗ	н	н
XA751	СН3-	H ₃ CO	Н	СНЗ	н	н

No.	R1	R2	R3	R4	R5	Ipe
		OCH ₃	1.~		IK9	R6
XA752	СН3-	OCH₃	Н	СНЗ	н	н
XA753	СН3-	H ₃ CO	Н	СНЗ	н	Н
XA754	СН3	H₃CO H₃CO	н	СНЗ	н	Н
XA755	СН3-	F_OCH₃	н	СНЗ	н	н
XA756	СН3-	OCH ₃	н	снз	н	Н
XA757	СН3-	OCH₃ F—✓	Н	СНЗ	н	Н
XA758	СН3-	OCH₃ F—	н	СН3	н .	Н
XA759	СН3-	OCH₃ F	Н	СНЗ	н	Н
XA760	СН3-	OCH ₃	н	СНЗ	Н	н
XA761	СН3-	H₃CO F—	Н	СНЗ	н	Н
XA762	СН3-	H₃CO F	н	СНЗ	н	Н
XA763	СН3-	H ₃ CO_F	н	СНЗ	н	Н
XA764	СН3-	H₃CO-{\bigs_F}	н [.]	СНЗ	н	Н
XA765	СН3-	H₃CO F	Н	СНЗ	н	н
XA766	СН3	H₃CO-⟨	Н	снз	н	н

No.	R1	R2	R3	R4	R5	R6
XA767	СН3-	CI_OCH ₃	н	СНЗ	н	н
XA768	СН3-	OCH ₃	н	СНЗ	Н	н
XA769	СН3-	OCH₃ CI	н	СНЗ	н	н
XA770	СН3-	OCH ₃ CI	н	СНЗ	н	Н
XA771	СН3	H₃CQ CI—()—;	Н	снз	н	Н
XA772	снз-	H ₃ CO CI	Н	снз	н	Н
XA773	СН3	H₃CO_CI	Н	СНЗ	н .	н

No.	R1	R2	IDa	ID4		
140.	 '''	,CI	R3	R4	R5	R6
XA774	CH3-	H ₃ CO-	Н	снз	н	н
XA775	СН3-	CI H ₃ CO	н	СНЗ	н	Ĥ
XA776	СН3-	CI H ₃ CO-	н	снз	н	н
XA777	СН3-	F_CH ₃	Н	СНЗ	Н	н
XA778	СН3-	F—{CH ₃	н	СНЗ	Н	н
XA779	СН3-	CH ₃	н	СНЗ	Н	н
XA780	СН3-	CH₃ F	Н	СНЗ	н	н
XA781	СН3-	H ₃ C F—{}	Н	снз	Н	н
XA782	СН3-	H₃C F	н	СНЗ	н	н
XA783	СН3-	H₃C_F →	н	СНЗ	н	н
XA784	СН3-	H₃C-⟨¯¯¯⟩–-}	Н	снз	н	н
XA785	СН3-	F H₃C	н	СН3	н	н
XA786	СН3-	_	Н	СН3	Н	н
XA787	СН3-		н	СН3	Н	н
XA788	СН3-	OCH ₃	Н	СНЗ	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA789	СН3-	OCH ₃ ⇒ Br	н	СНЗ	н	Н
XA790	СН3-	OCH ₃ Br	Н	снз	н	н
XA791	СН3-	H₃CO Br—⟨	н	СНЗ	н	Н
XA792	СН3	H₃CO Br	н	СНЗ	н	Н
XA793	СН3-	H₃CO_Br	Н	снз	н	Н
XA794	СН3-		Н	СНЗ	Н	н
XA795	СН3-	H ₃ CO	H .	снз	Н	н

No.	R1	R2	R3	R4	R5	Ine
	1	Br,		Ν4	IK3	R6
XA796	СН3-	H₃CO-⟨¯>→	Н	СНЗ	н	Н
XA797	СН3-		н	СНЗ	Н	Н
XA798	СН3-	OCH₃	н	СНЗ	н	н
XA799	СН3-	CN-C→OCH ₃	н	СНЗ	Н	Н
XA800	СН3-		н	СНЗ	Н	н
XA801	СН3-		Н	СНЗ	н	н
XA802	СН3-	OCH3	Н	СНЗ	Н	Н
XA803	СН3-	`F	Н	СНЗ	Н	н
XA804	СН3-	OCH₃ F—⟨_}→ F	Н	СНЗ	Н	н
XA805	СН3-	F	Н	СНЗ	н	Н
XA806	СН3-	,ocH³	н	СНЗ	Н	Н
XA807	СН3-	OCH ₃	Н	СНЗ	Н	н
XA808	СН3-	, CI	н	СНЗ	Н	Н
XA809	СН3-	CI	н	СНЗ	Н	н
XA810	снз–	CI H₃CO-⟨_}-; CI	Н	СН3	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA811	СН3-	OCH ₃	Н	СНЗ	н	Н
XA812	СН3-	H ₃ CO-{_}-} OCH ₃	н	СНЗ	Н	н
XA813	CH3-	OCH ₃	Н	СНЗ	Н	н
XA814	СН3-	H ₃ CO	Н	СНЗ	Н	н
XA815	СН3-	H3CO-{_}-{_}-1	Н	СНЗ	н	Н
XA816	СН3-	OCH ₃ /t	Н	СНЗ	Н	Н
XA817	СН3-	H ₃ CO	Н	СНЗ	Н	н

No.	R1	R2	R3	R4	Inc	1
	1	<u>}</u>	11.0	IN4	R5	R6
XA818	СН3-	н₃со-⟨}	н	СНЗ	H .	н
XA819	СН3-	OCH ₃	н	СНЗ	н	Н
XA820	СН3-	H ₃ CO	Н	СНЗ	н	н
XA821	СН3-	H₃CO- ⟨	Н	СНЗ	н	Н
XA822	СН3-	∅ - ⊘ -;	Н	СНЗ	н	Н
XA823	СН3-		Н	снз	Н	Н
XA824	СН3-	F-{}-{}-{}-{}-{}-{}-{}-{}-{}-{}-{}-{}-{}-	Н	СНЗ	Н	Н
XA825	СН3-		Н	СНЗ	Н	Н
XA826	СН3		н	СН3	н	н
XA827	СН3-	F-(-)-(-) ²	Н	СНЗ	н	Н
XA828	снз-		н	СН3	Н	Н
XA829	снз-		н	СНЗ	Н	Н
XA830	СН3~	F-(-)-(-)	Н	СН3	Н	н
XA831	СН3~		Н	СНЗ	Н	Н
XA832	СН3-		Н	СНЗ	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA833	СН3-	CT _N	н	СН3	н	Н
XA834	СН3-		Н	СНЗ	Н	Н
XA835	СН3-		Н	СНЗ	Н	Н
XA836	СН3~		н	снз	н	н
XA837	снз-	,CT	Н	сн3	н	Н
XA838	СН3-	Ç;	н	СН3	Н	Н
XA839	СН3-		Н	СН3	Н	н

No.	R1	R2	R3	R4	R5	R6
XA840	СН3-		Н	СНЗ	н	н
XA841	СН3-	Č;	Н	СН3	Н	н
XA842	снз-	(0)	Н	СНЗ	н	н
XA843	снз-	,CT	н	CH3	Н	Н
XA844	снз-		н	СН3	н	H
XA845	снз-		н	СН3	H	Н
XA846	снз-		Н	СН3	н	н
XA847	снз-	ĊŢ3	н	СНЗ	H 	н
XA848	снз–		н	снз	н	Н
XA849	СН3-		н	СНЗ	н .	Н
XA850	СН3-	<u> </u>	н	СНЗ	Н	Н
XA851	снз–		Н	СНЗ	Н	Н
XA852	СН3-		н	СН3	H .	Н
XA853	снз-	CIN	Н	СНЗ	н	н
XA854	СН3-	, CTh	н	СНЗ	Н	Н
XA855	СН3-	Çîr	н	СНЗ	Н	Н
XA856	СН3~		н		Н	H
XA857	СН3-	Č,	Н	сн3	н	н ,
XA858	СН3-	, Chi	н	СНЗ	Н	Н
XA859	СН3-		н	СНЗ	Н	н
XA860	СН3-	Č\}	Н	СНЗ	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA861	СН3-	" (I)	Н	СНЗ	H	1
<u> </u>			ļ <u>.</u>	0.10	П	Н
XA862	CH3-	1/5/0°	н	СНЗ	н	н
XA863	СН3-	Ţ,	Н	снз	н	Н
XA864	снз-	(Is)	н	снз	Н	Н
XA865	СН3-	CI'S	Н	снз	Н	Н
XA866	СН3-	'CI'S	н	снз	Н	Н
XA867	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	СНЗ	н	Н
XA868	снз-	ÇŢ,	н	СНЗ	н	н .
XA869	СН3-		н	СН3	н	H ·
XA870	снз-	ČT?	Н	СНЗ	н	Н
XA871	снз-	CC	н	СНЗ	Н	н
XA872	СН3-	(CT)	Н	СНЗ	Н	Н
XA873	СН3-	ÇTon	Н	СНЗ	Н	Н
XA874	снз-	CT;	Н	СНЗ	н	н
XA875	CH3-	Č;	Н	СН3	Н	н
XA876	СН3	"OZ"	Н	СНЗ	Н	Н
XA877	снз-	,CI3 ^N	н	снз	Н	Н
XA878	снз-	<u> </u>	н	СН3	Н	н
XA879	снз-	Ţ,	н	СНЗ	Н	н
XA880	СН3	,CC	н	СН3	Н	Н
XA881	СН3-	(C);	Н	СНЗ	Н	н
XA882	СН3-	Č;	Н	СНЗ	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA883	снз-	СН3-	Н	Q	н	H ·
XA884	СН3-	СН3СН2-	Н		н	Н
XA885	СН3-	^ \	н		н	н
XA886	снз-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н		н	н
XA887	СН3-	~ ~	Н	$\mathbb{Q}_{\mathcal{A}}$	Н	Н
XA888	снз-	<u></u>	Н	Qu	н	н
XA889	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н		н	н
XA890	снз-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н		н	н
XA891	СН3-	^	н	Q	н	Н
XA892	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Qu	н	Н
XA893	снз-	<u> </u>	н		н	Н
XA894	СН3-	7	Н	Qu	Н	н
XA895	СН3-	\\\\	Н		н	Н
XA896	СН3-		Н	Q	Н	H
XA897	СН3-	^	H 		н .	н
XA898	СН3-	\\\\	Н		н	Н
XA899	СН3-	n-C8H17-	н ,	Q	Н	н
XA900	СН3-		н	Qu	н	н
XA901	снз-	Q	Н		Н .	н
XA902	снз–		Н		н	н
XA903	СН3-		Н	Q	н	Н
XA904	СН3	$\triangleright \rightarrow$	Н	Q	н	н

No.	R1	R2	R3	R4	R5	R6
XA905	CH3-					
AA905	CH3-	,	Н		. H	H
XA906	СН3-	\bigcirc	н		Н	н
ЖА907	СН3-		н	Q	н	н
XA908	СН3-	$\bigcirc \dashv$	н	Q	Н	н
XA909	СН3-		н	Q	н	H
XA910	СН3		н		Н	Н
XA911	СН3-		н		Н	Н
XA912	СН3-	<u></u>	Н	Q	н	н
XA913	снз-	<u></u>	н		н	н
XA914	снз-	F-(){	Н		Н	н
XA915	СН3-	F-(-){	Н		Н	н
XA916	снз-	F-{	н		н	н
XA917	СН3-	CI	Н		Н	н
XA918	снз-	CI	Н		Н	н
XA919	СН3-	c⊢ ()—{	н		Н	н
XA920	СН3-	C⊢ ()→	Н	Q	н	н
XA921	СН3-	CI—(н		Н	Н
XA922	СН3-	Br	н		Н	н
XA923	снз-	Br.	Н	Q	Н	н
XA924	СН3-	Br—{_}{	Н	Q	Н	Н
XA925	СН3-	Br-C>-{	Н	Q	Н	Н
XA926	CH3-	Br—{	Н	Q	Н	н

No.	R1	R2	R3	R4	R5	R6
XA927	СН3-	<u>-</u>	Н		Н	H
XA928	CH3-	<u></u>	н		Н	н
XA929	СН3-	⊢ →{	Н	Q	Н	н
XA930	СН3-	CH ₃	Н	Q	Н	н
XA931	СН3-	H ₃ C	н	Qu	н	н
XA932	СН3-	H ₃ C-{	н	Q	Н	н
XA933	СН3-	C ₂ H ₅ -{{{1}}	н	Q	Н	н
XA934	СН3-	n-C ₃ H ₇ -{	н	Q	Н	Н
XA935	СН3-	n-C ₄ H ₉ —{	Н	Q	н	н
XA936	СН3-	OH ○	н	Qu	н	Н
XA937	СН3-	HO	Н	Q	н	Н
XA938	СН3-	HO-{_}_{}	Н	Q	Н	Н
XA939	снз-	OCH₃	Н	Qu	Н	н
XA940	снз-	H ₃ CO	н	Qu'	Н	н
XA941	снз-	H ₃ CO-{_}-{	Н	Qu	н	н
XA942	СН3-	H ₃ CO-{_}{	н	Q	Н	н
XA943	СН3-	H ₃ CO-	Н	Q	Н	н
XA944	СН3-	OC ₂ H ₅	Н	Q	н	н
XA945	СН3-	C ₂ H ₅ O	Н	Qu	Н	н .
XA946	CH3-	C ₂ H ₅ O-{}-{	Н	Qu	н	н
XA947	СН3-	n-C ₃ H ₇ O-{}-{	Н	Qu	Н	н
XA948	СН3-	n-C ₄ H ₉ O-{{{4}}	Н	Qu	Н	Н

No.	R1	R2	R3	R4	R5	R6
		NO ₂			100	- Ro
XA949	CH3-	<u>_</u>	Н	L	Н	н
XA950	снз-	O ₂ N	н		н	Н
XA951	снз-	02N-{_}	Н		н	Н
XA952	СН3	CN →	н	Q	н	Н
XA953	снз-	NC —}	н	Q	н	Н
XA954	СН3-	NC-{}	н		н	н
XA955	СН3-	CF ₃	н		н	Н
XA956	СН3-	F ₃ C	н	Q	Н	н .
XA957	СН3-	F ₃ C-__	Н	Q	н	н
XA958	СН3-	COOH	н	Q	Н	Н
XA959	снз-	HOOC	н	Q	Н	Н
XA960	СН3-	HOOC-{\rightarrow}-{\rightarrow}-{\rightarrow}	н	Q	н	Н
XA961	СН3-	CO₂Me	Н	Q	Н	Н
XA962	СН3-	MeO ₂ C	н	Q	н	н
XA963	снз-	MeO ₂ C-{}	н		н	н
XA964	снз-	CO ₂ Et	н .	Q	Н	Н
XA965	СН3-	EtO ₂ C	н		Н	Н
XA966	СН3-	EtO ₂ C-{	Н	Q	н	н
XA967	СН3-	SMe	Н	Qu	Н	н
XA968	СН3-	MeS	Н	Qu	н	Н
XA969	снз–		Н	Qu	н	н
XA970	снз-	SO₂Me	Н	Qu	н	н

No.	R1	R2	R3	R4	R5	R6
XA971	СН3-	MeO ₂ S	н	Q	н	н
XA972	снз-	MeO ₂ S-{_}-{	Н	Q	н	Н
XA973	СН3-	NH ₂	Н	Q	н	Н
XA974	снз-	H ₂ N	Н	Q	Н	н
XA975	снз-	H_2N	Н	Q	н	н
XA976	снз-	NMe ₂	Н	Q	Н	н
XA977	снз-	Me ₂ N	Н	Q	н	н
XA978	снз-	Me ₂ N-	Н	Q	н	Н
XA979	СН3-		Н	Q	Н	н
XA980	снз-	Cn-€}	Н	Q	Н	н
XA981	СН3-		Н	Q	н	н
XA982	СН3		Н	Q	н	н
XA983	СН3-	\(\rightarrow\)	н	Q	Н	н
XA984	СН3-	N-(2)-1	Н	Q	н	н
XA985	СН3-		Н	Q	н .	Н
XA986	©Н3−	<u></u>	Н	Q	н	н
XA987	СН3-	O_N+(}-1	Н	Q	н	н
XA988	снз-	H ₃ CN N—	Н	Q	н	н
XA989	СН3-	H ₃ CN N-	н	Q	Н	н
XA990	снз-	H3CN_N-{}-{	Н	Q	н	н
XA991	СН3-	H ₃ C CH ₃	н	Qu	н	Н
XA992	CH3-	CH ₃	Н	Qu	н	н

No.	R1	R2	R3	R4	R5	R6
XA993	снз-	CH₃ → H₃C	н		Н	Н
XA994	СН3-	CH ₃ CH ₃	н		н	н
XA995	СН3-	H ₃ C	н		н	Н
XA996	СН3-	H₃C H₃C	Н		н	Н
XA997	СН3-	F F	Н		н	н
XA998	СН3-	F——	н		н	н
XA999	СН3-	F F	Н		н	Н
XA1000	СН3-	Ç F F	Н		н	Н
XA1001	СН3	F———	Н	Q	Н	Н
XA1002	СН3-	F F	Н	Q	Н	н
XA1003	СН3-	CI_CI	Н	Q	н	н
XA1004	СН3-	CI—CI	Н		н	Н

_No.	RI	R2	Tpa	In4	Inc.	
140.	101		R3	R4	R5	R6
XA1005	CH3	CI	н		н	Н
XA1006	СН3-	CI	н	Q	н	Н
XA1007	СН3-	CI—	н	Q	н	н
, XA1008	СН3-	CI	н		н	
XA1009	СН3-	H ₃ CO_OCH ₃	-	Q		н
XA1010	ОН3-	H ₃ CO-	Н	Qu	Н	н
XA1011	СН3-	OCH ₃	Н	Q	Н	н
XA1012	СН3-	OCH ₃ OCH ₃	н		н	н
XA1013	СН3-	H₃CO H₃CO-⟨\$\rightarrow{\righ	Н		н	Н
XA1014	СН3-	H₃CO H₃CO	Н		н	Н

No.	R1	R2	R3	R4		
XA1015		F_OCH ₃	Н		R5 H	R6
XA1016	СН3-	OCH ₃	Н	Q	н	Н
XA1017	СН3-	OCH ₃	н	Q	Н	Н
XA1018	СН3	OCH ₃	н	Q	н	н
XA1019	СН3-	OCH ₃	н		. Н	Н
XA1020	СН3-	OCH ₃	Н		н	Н
XA1021	СН3-	H ₃ CO F	Н	Q	Н	н
XA1022	СН3-	H ₃ CO F	н	Q	Н	н
XA1023	СН3	H ₃ CO_F	Н		н	Н
XA1024	СН3-	H₃CO-⟨¯ <mark>F</mark>	Н		н	Н
XA1025	СН3-	F H₃CO	Н			Н
XA1026	СН3-	H₃CO-⟨S	Н		Н	н

No.	R1	R2	R3	R4		
XA1027		CI_OCH ₃	Н		R5 H	R6 H
XA1028	СН3-	OCH ₃	Н		н	н
XA1029	СН3-	OCH ₃	Н	Q	Н	н
XA1030	СН3-	OCH ₃	н		н	Н
XA1031	СН3-	H₃CO CI—	Н		Н	н
XA1032	СН3-	H ₃ CO	н	Q	Н	Н
XA1033	СН3-	H₃CO_CI	Н	Q	Н	н
XA1034	снз-	H ₃ CO-	Н		н	н
XA1035	СН3	H₃CO	Н		н	Н
XA1036	СН3-	CI H₃CO-⟨¯¯ <mark>></mark> —{	н	Q	Н	Н

No.	R1	R2	R3	R4	R5	
XA1037	/ СН3-	F_CH ₃	н		H	R6 H
XA1038	СН3-	F—{CH ₃	н		Н	н
XA1039	CH3-	FCH ₃	н		н	Н
XA1040	СН3-	CH ₃	Н		н	Н
XA1041	СН3-	H ₃ C F——}	н	Q	н	Н
XA1042	СН3	H ₃ C	Н	Q	н	н
XA1043	СН3-	H ₃ C F	Н		Н	н
XA1044	СН3-	H ₃ C	н		н	н
XA1045	СН3-	H ₃ C	Н		н	Н
XA1046	СН3-	H ₃ C-₹	Н		н	Н
XA1047	CH3-		н	Q	Н	н
XA1048	СН3~	OCH₃ Br—∰	н	Q	н	н

No.	R1	R2	ID2	In.	lne.	т
140.	 		R3	R4	R5	R6
XA1049	СН3-	OCH ₃	Н		Н	н
XA1050	СН3-	OCH ₃ Sr	н		н	н
XA1051	снз-	H₃CO Br∰	н	Q	Н	н
XA1052	снз-	H ₃ CO Br	Н	Q	Н	н
XA1053	СН3-	H ₃ CO_Br	н	Q	н	н
XA1054	СН3-	H₃CO-⟨SF	н	Q	н	Н
XA1055	CH3-	Br H₃CO	Н	Q	н	Н
XA1056	СН3-	Br H ₃ CO	н	Q	н	н
XA1057	СН3-	H ₃ CO	н	Q	н	н
XA1058	СН3-	OCH₃ ○N-(-)	н	Q	н	Н

No.	R1	R2	R3	R4	R5	
XA105	9 CH3-		Нзн		Н	R6
XA1060	CH3-	H ₃ CO >] H	Q	н	Н
XA1061	СН3-	H ₃ CO N →	Н		н	н
XA1062	СН3-	OCH ₃	н		Н	н
XA1063	СН3-	F——	н		Н	н
XA1064	СН3-	OCH ₃	Н		н	н
XA1065	СН3-	H₃CO-⟨Ş- F	Н		Н	н
XA1066	СН3-	OCH ₃ F— OCH ₃	Н		Н	н
XA1067	СН3-	H ₃ CO-C-X OCH ₃	н		Н	н
XA1068	СН3-	CI	Н		Н	н
XA1069	СН3-	CI—(Н	Q	Н	н
XA1070	СН3-	H₃CO-⟨}{ CI	Н		Н	н

No.	R1	R2	R3	R4	R5	R6
XA1071	CH3-	OCH ₃	Н		H	H
XA1072	СН3-	H ₃ CO-{_}_} OCH ₃	Н		н	Н
XA1073	СН3-	OCH ₃	Н		н	Н
XA1074	СН3-	H ₃ CO	Н		н	Н
XA1075	СН3-		Н	Q	н	Н
XA1076	СН3	OCH ₃ }	Н		н	н
XA1077	СН3-	H ₃ CO >	Н		Н	Н
XA1078	СН3-	H₃CO-⟨	Н		н	н
XA1079	СН3-	OCH ₃	Н		н	Н
XA1080	СН3-	H₃CO ←	н	Q	H	Н

No.	R1	R2	R3	R4	R5	R6
XA1081	CHO	H ₃ CO-{_}}-{_}				110
AA1081	CH3-		н		Н	Н
XA1082	СН3-		н	Q	н	Н
XA1083	СН3-		н	Q	Н	Н
XA1084	CH3-	F-{}-{}-{}-{}-{}-{}-{}-{}-{}-{}-{}-{}-{}-	н	Q	н	н
XA1085	СН3-	<u>o</u> -o`	н	Q	н	н
XA1086	СН3-		н		Н	Н
XA1087	СН3-		н		н	Н
XA1088	снз-	Q-\D	Н	Q	н	Н
XA1089	СН3	\$\langle \(\tilde{Q} \)	н		н	н
XA1090	СН3-		н		Н	Н
XA1091	СН3-		н .	Q	н	Н
XA1092	СН3-		н		н	Н
XA1093	CH3-		Н		н	н
XA1094	СН3-		н ·	Qr	н	н
XA1095	СН3-		н	Q	Н	н
XA1096	СН3-		н	Qu	н .	H-
XA1097	СН3-	,CT	н	Q	Н	н
XA1098	СН3-		н	Qi	н	Н
XA1099	СН3-		н	Q.	Н	Н
XA1100	СН3-		Н	Q	н	Н
XA1101	СН3-	Ŭ;	Н	Qi	н .	н
XA1102	СН3-	(CI)	н		Н	н

No.	R1	R2	R3	R4 .	R5	R6
XA1103	СН3-	,CT	н		н	н
XA1104	СН3-	Çr?	н		н	н
XA1105	СН3-	CT\$-1	н		Н	Н
XA1106	СН3-		н		н	н
XA1107	СН3-	Ū;	Н	Q	н .	H
XA1108	снз-	'O 3	н	Qu	н	Н
XA1109	СН3-	,CT3	н	Qu	н .	Н
XA1110	СН3-	Qr _s	н	Q.	Н	Н
XA1111	СН3-		н		н	Н
XA1112	СН3-		Н	Q	н	Н
XA1113	снз-		н	Qu	Н	Н
XA1114	СН3-	, CTN	н	Qi	н	Н
XA1115	снз-	<u>Č</u> ľ	Н		Н	Н
XA1116	СН3-		н		н	н
XA1117	СН3-	Ž,	Н		н	H
XA1118	СН3-	TON N	Н	Q	Н	Н
XA1119	СН3-	(T)→	н	Qi	Н	Н
XA1120	СН3-	Ž, N	Н	Qi	Н	н
XA1121	СН3-	'CI'	н	Q	Н	Н
XA1122	снз–	, Do	н	Q.	н	Н
XA1123	снз-		Н	Q	н	Н
XA1124	СН3-	CIS+	Н	Q	н	Н

No.	R1	R2	R3	R4	R5	R6
XA1125	СН3-	J's	н		Н	Н
XA1126	СН3-	'TI'S	н		Н	Н
XA1127	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	Q	н	Н
XA1128	СН3-	Ž,	н	Q	н	н
XA1129	СН3-	CT.	н	Q	н	H
XA1130	снз-	ČT)	н	Q	н	Н
XA1131	СН3-	TOW WITH	Н	Q	н	н
XA1132	СН3-	(CT),	н	Qu	н	н
XA1133	СН3-	ÇT'N	н	Q	н	н
XA1134	СН3-	CT,	н	Q	н	н
XA1135	СН3-	ČŢ,'n	н	Q	н	н
XA1136	СН3-	"CLSN"	Н	Q	н	н
XA1137	снз-	,CIN	н	Qi	н	н
XA1138	СН3-	ÇTêV	н	Q	н	Н
XA1139	СН3-	Ţ,	н	Q	н	Н
XA1140	снз-	,CC	н	Q	Н	н
XA1141	снз-	(C)	Н	Q	н	н
XA1142	СН3-		Н	Q	н	н
XA1143	СН3-	СН3-	Н	<u>گ</u> ر	Н	Н
XA1144	СН3-	СН3СН2-	Н	<u>گ</u> ر	Н	Н
XA1145	СН3-	∼ ∖\	Н		Н	н
XA1146	СН3-	Y	н	O.	н	Н

No.	R1	R2	R3	R4	R5	R6
		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\				140
XA1147	CH3-		Н	Ŷ,	н	н
XA1148	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Ŷ,	н	н
XA1149	СН3-	~~	н	Ů,	Н	Н
XA1150	СН3-	7	н	Ŷ,	н	Н
XA1151	СН3-	~~``\	н	Ŷ,	н	н
XA1152	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Ŷ,	Н	Н
XA1153	СН3-	×x	н	Ŷ,	н	н
XA1154	СН3-	7	н	Ŷ	Н	н
XA1155	СН3-	\\\\	Н	Ŷ,	Н	н
XA1156	снз-	人へ、	н ,	Ŷ,	н .	н
XA1157	СН3-	^^^\	н	ئى,	Н	Н
XA1158	снз-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	Ů,	н	н
XA1159	снз-	n-C8H17-	Н	Ŷ,	Н	Н
XA1160	снз~		Н	Ŷ,	Н	Н
XA1161	СН3		н	Ŷ,	н	Н
XA1162	CH3-		н	Ŷ,	н	Н
XA1163	СН3-		Н	Ŷ,	Н	н
XA1164	СН3-	\triangleright	н	<u>گ</u>	н	Н
XA1165	СН3~	\Diamond -1	Н	Q I	н	н
XA1166	СН3-	\bigcirc	Н	, , , , , , , , , , , , , , , , , , ,	Н	Н
XA1167	СН3-	\bigcirc \dashv	Н	Ŷ,	Н	н
XA1168	СН3-	\bigcirc -I	Н	ç.	н	Н

No.	R1	R2	R3	R4	R5	R6
XA1169	СН3-	<u></u>	н	Ů,	н	н
XA1170	снз-		Н	Ů,	Н	н
XA1171	снз-	⊘ m{	Н	Ŷ,	н	н
XA1172	снз-	F-1	н	Ŷ,	н	н
XA1173	СН3	F	н	Ŷ,	н	H
XA1174	снз-	F-(-){	Н	Ŷ,	н	н
XA1175	снз-	F—()	н	٨	Н	н
XA1176	снз-	F—()····}	н	Ŷ,	Н	н
XA1177	СН3-	CI	Н	گ _خ	Н	н
XA1178	СН3-	CI	н	گ _ې	н	н
XA1179	СН3-	C⊢ (_ }~;	н	٧,	Н	Н
XA1180	СН3	C-(_>-(Н	Ŷ,	н	н
XA1181	СН3-	CH	н	Ŷ,	Н	н
XA1182	СН3-	Br	Н	Ĵ,	Н	Н
XA1183	СН3-	Br	Н	Ĵ,	н	Н
XA1184	СН3-	Br—{	н	Ŷ,	Н	Н
XA1185	СН3-	Br—(Н	بُ	Н	Н
XA1186	снз-	Br—(н	Ŷ,	Н	Н
XA1187	СН3-	△	н	Ŷ,	н	н
XA1188	снз-		н	Ŷ,	Н	н
XA1189	СН3-		н		Н	н
XA1190	снз-	CH₃ ◯>–{	Н	Q.	н	н

No.	R1	R2	R3	R4	R5	R6
XA1191	снз-	H ₃ C	Н	<u>گ</u> ر	Н	Н
XA1192	СН3-	H ₃ C-{{}	н	بُ	Н	Н
XA1193	снз-	C ₂ H ₅ —{}	н	بُر	н	н
XA1194	СН3-	n-C ₃ H ₇ -	н	<u>گ</u>	Н	н
XA1195	СН3-	n-C ₄ H ₉ {}	Н	Ŷ,	н	н
XA1196	СН3-	ОН	н	Ŷ,	н	н
XA1197	СН3-	HO	Н	Ů,	н .	н
XA1198	снз-	HO-{\rightarrow}-{\rightarrow}	н	Ů,	н	н
XA1199	СН3-	OCH₃	Н	Ŷ,	н	н
XA1200	СН3-	H ₃ CO	н	Ŷ,	Н	н
XA1201	СН3-	H ₃ CO-{_}_{	Н	<u></u>	Н	Н
XA1202	СН3-	H₃CO- ()—{	н	Ŷ,	н	н
XA1203	СН3-	H ₃ CO-{\bigs\minimiss} in \{	н	Ŷ,	н	н
XA1204	СН3-	OC ₂ H ₅	н	Ŷ,	н	н
XA1205	СН3-	C ₂ H ₅ O	н .	ئى,	н	Н
XA1206	снз-	C ₂ H ₅ O-{{}	н	i,	н	Н
XA1207	СН3-	n-C ₃ H ₇ O-	н	<u></u>	н	Н
XA1208	СН3-		н		н	Н
XA1209	СН3-	NO ₂	н		Н	Н
XA1210	СН3-	O ₂ N	Н	Ŷ,	н	н
XA1211	СН3-		н		Н	н
XA1212	СН3-	CN	н	Ŷ,	Н	н

No.	R1	R2	R3	R4	R5	R6
		NC	1			170
XA1213	CH3-	<u></u>	Н	Ŷ,	Н	н
XA1214	СН3-	NC-{}-{	н	٨	н	н
XA1215	СН3-	CF ₃	н	Ŷ,	Н	Н
XA1216	СН3-	F ₃ C	н		н	н
XA1217	СН3-	F ₃ C-{	Н	<u></u>	н	H
XA1218	СН3-	COOH	н	Ŷ,	н	н
XA1219	СН3-	HOOC.	н		н	н
XA1220	снз-	HOOC-{_}-{	Н	2,	н	Н
XA1221	снз-	CO₂Me	Н.	Ŷ,	н	н
XA1222	СН3-	MeO ₂ C	н	Ŷ	н	Н
XA1223	снз-	MeO ₂ C-	Н	<u></u>	Н	Н
XA1224	СН3-	CO ₂ Et	Н	Ŷ,	Н	н
XA1225	СН3-	EtO ₂ C	н	<u>گ</u> ہ	н	н
XA1226	СН3-	EtO ₂ C-{}	н	Ŷ,	н	Н
XA1227	снз-	SMe	Н	Ŷ,	Н	н
XA1228	СН3~	MeS ————————————————————————————————————	н	Ŷ,	Н	н
XA1229	снз-	MeS-{_}-{	Н	<u>گ</u>	Н	Н
XA1230	СН3-	SO ₂ Me	Н	Ŷ,_	н .	н
XA1231	СН3-	MeO ₂ S	Н	Ů,	H	н
XA1232	СН3-		н	Ŷ,	н	н
XA1233	СН3-	\\/	Н	•	н	н
XA1234	СН3-	H ₂ N →	н	Q	Н	н

No.	R1	R2	R3	R4	R5	R6
XA1235	CH3-	H_2N	H [*]	l,	н	Н
XA1236	СН3-	NMe ₂	Н	٨,	н	н
XA1237	СН3-	Me ₂ N	Н	Ŷ,	Н	н
XA1238	снз-	Me ₂ N-\\\	Н	l,	н	н
XA1239	СН3-		н	l,	н	Н
XA1240	СН3-		Н	l,	н	Н
XA1241	СН3-	_N-{_}-;	Н	Ŷ,	н	н
XA1242	СН3-	_n-	н	l,	Н	Н
XA1243	СН3-	(N-())	Н	Ŷ,	н	Н
XA1244	СН3-	N-(н	Ŷ,	Н	Н
XA1245	СН3-	○ N- ◇	н	Ŷ,	н	Н
XA1246	СН3-		Н	Ŷ,	н	ዘ
XA1247	СН3-	o_v-{_};	н	L,	Н	Н
XA1248	СН3-	H₃CN N—	н	L,	н	Н
XA1249	СН3-	H₃CN N-	H	Ļ,	н .	н .

No.	R1	R2	R3	R4	R5	1
XA1250	СН3-	H ₃ CN_N-{_}	Н	l,	Н	R6 H
XA1251	СН3-	H ₃ C_CH ₃	Н	Ŷ,	н	Н
XA1252	СН3-	CH ₃	н	Ŷ,	Н	н
XA1253	СН3-	CH₃	Н	Ŷ,	Н	н
XA1254	СН3-	CH ₃ CH ₃	Н	Ŷ,	н	н
XA1255	СН3-	H ₃ C H ₃ C-_}-{	Н	Ŷ,	н	Н
XA1256	СН3-	H ₃ C —} H ₃ C	Н	<u>گ</u>	Н	н

No.	R1	R2	R3	R4	R5	R6
XA1257	СН3-	F.	н	l,	н	н
XA1258	СН3-	F——F	Н	l,	Н	Н
XA1259	СН3-	F F	н	Ŷ,	Н	Н
XA1260	СН3-	€ ·	Н	l,	Н	Н
XA1261	СН3-	F—————————————————————————————————————	н	Ŷ,	Н	Н
XA1262	СН3-	F F	н	Î,	Н	Н
XA1263	СН3-	CI_CI	н	Ŷ,	н	н
XA1264	СН3-	CI—CI	Н	l,	Н	H
XA1265	СН3-	CI	Н	l,	н	н
XA1266	СН3-	CI CI	н	Î,	Н	н
XA1267	СН3-	CI CI	н	Ŷ,	Н	н
XA1268	СН3-	CI CI	н	Ŷ,	Н	н
XA1269	СН3-		н	Ŷ,	н	н
XA1270	снз-		н	l,	н	н
XA1271	СН3-	OCH ₃	Н	l,	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA1272	СН3-	OCH ₃ OCH ₃	Н	١,	Н	Н
XA1273	СН3-	H ₃ CO	н	Ŷ,	н	н
XA1274	СН3	H₃CO H₃CO	н	l,	н	н
XA1275	СН3	F_OCH ₃	н	Ŷ,	н	н
XA1276	СН3-	OCH₃ F—∰	Н	Ŷ,	Н	н
XA1277	СН3-	OCH ₃	Н	l,	н	Н
XA1278	снз-	OCH ₃ F—	Н	Î,	Н	н

No.	R1	R2	R3	R4	R5	100
XA1279	CH3-	OCH ₃	н	١,	Н	R6
XA1280	СН3-	OCH₃ F	Н	١,	н	н
XA1281	СН3-	H ₃ CO	Н	Ŷ,	Н	н
XA1282	снз-	H₃CO F	Н	Ŷ,	н	Н
XA1283	СН3-	H ₃ CO_F	н	١,	н	н
XA1284	СН3-	H₃CO-⟨F	Н	١,	н	н
XA1285	СН3-	H ₃ CO	н	٤,	н	н
XA1286	СН3-	H ₃ CO-	Н	l,	Н	н
XA1287	СН3-	CI_OCH ₃	Н	Ŷ,	Н	Н
XA1288	СН3-		н	٨,	н	Н
XA1289	СН3-	OCH₃ CI	н	L,	н	Н
XA1290	СН3-	OCH₃ CI	Н	٤,	н	н
XA1291	СН3	H₃CQ CI—	н	l,	н	н
XA1292	СН3-	CI'	Н	Ŷ,	Н	н
XA1293	СН3-	H₃CO_CI	н	Ŷ,	Н	н

No.	R1	R2	R3	R4	R5	Inc
XA1294	СН3-	H₃CO-⟨¯);	н	<u>گ</u>	Н	R6 H
XA1295	снз-	H ₃ CO	н	l,	Н	н
XA1296	CH3-	CI H₃CO-⟨}—{	Н	Ŷ,	н	н
XA1297	СН3-	F_CH ₃	н	l,	Н	н
XA1298	СН3-	CH ₃ F—√_}	н	L,	Н	Н
XA1299	СН3-	CH₃ F	Н	L,	н	Н
XA1300	СН3-	CH₃ F	н	Ĵ,	н	Н

No.	R1	R2	R3	D4	lns ·	155
140.	1		IN3	R4	R5	R6
XA1301	CH3-	H ₃ C F——}	Н	<u></u>	н	н
XA1302	СН3-	H₃C F	Н	Ĵ,	н	Н
XA1303	CH3-	H ₃ C_F	н	Î,	Н	Н
XA1304	СН3-	H ₃ C-√F	Н	گ,	Н	Н
XA1305	СН3-	H₃C	н	Ŷ,	Н	Н
XA1306	СН3-	H₃C-⟨S	н	Î,	н	Н
XA1307	СН3-	Br_OCH ₃	Н	Ŷ,	Н	н
XA1308	СН3-	OCH ₃ Br—⟨□⟩→	Н	Ŷ,	Н	Н
XA1309	СН3-	OCH ₃	Н	l,	н	н
XA1310	снз-	OCH ₃ Br	н	Ŷ,		н
XA1311	СН3-	H₃CO Br—⟨¯)—;	Н	l,	н	н
XA1312	СН3-	H ₃ CO Br	Н	l,	н	н
XA1313	СН3-	H₃CO_Br	н	L,	н	Н
XA1314	СН3-	H ₃ CO-⟨□⟩H ₃	Н	Î,	Н	н
XA1315	СН3-	Br → H₃CO	н	l,	Н	н

No.	R1	R2	R3	R4	R5	R6
XA1316	СН3	Br H₃CO →	н	١,	Н	Н
XA1317	СН3-	H ₃ CO N-()	н	Î,	н	н
XA1318	СН3-	OCH ₃	Н	l,	Н	Н
XA1319	снз-	N-{_}OCH₃	Н	Ŷ,	н	Н
XA1320	СН3-	H₃CO } ——N	Н	Ŷ,	н	Н
XA1321	СН3-	7	н	L,	Н	Н
XA1322	СН3-	OCH₃ CN	Н	l,	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA1323	СН3-	F-()-1 F	Н	١,	Н	Н
XA1324	СН3	OCH ₃ F—⟨⟩-} F	Н	١,	Н	н
XA1325	СН3-	H₃CO-⟨_}{};	н	l,	Н	Н
XA1326	СН3-	OCH ₃ F-⟨}-} OCH ₃	Н	l,	Н	Н
XA1327	CH3-	OCH ₃ H ₃ CO-C_>-3 OCH ₃	н	Ŷ,	н	н
XA1328	СН3-	CI—CI	Н	<u>I</u> ,	н	Н
XA1329	СН3-	CI—CDCH ₃	н	Ŷ,	н	Н
XA1330	CH3-	CI H₃CO-⟨_}-{ CI	Н	Ŷ,	н	Н
XA1331	СН3-	OCH ₃ OCH ₃	Н	l,	Н	н
XA1332	CH3~	H₃CO-⟨⟩-; OCH₃	Н	l,	Н	н
XA1333	СН3-	OCH ₃	Н	Î,	н	Н
XA1334	CH3-	H ₃ CQ	н	Ŷ,	н .	Н
XA1335	СН3-	H₃CO- ⟨ _}-{_}-{ ₁	н	l,	н	Н
XA1336	СН3-		н	l,	Н	Н
XA1337	СН3-	H ₃ CO ,	Н	Î,	н	Н

No.	R1	R2	R3	R4	R5	R6
XA1338	СН3-	н₃со-⟨∑>-⟨∑	Н	l,	Н	Н
XA1339	СН3-	OCH ₃	н	l,	Н	н
XA1340	СН3	H ₃ CO	н	Î,	н	Н
XA1341	СН3-	H₃CO-⟨	Н	L,	н	Н
XA1342	СН3-	F	Н	L,	н	н
XA1343	СН3-	F	Н	L,	н	Н
XA1344	СН3-	F-(Н	l,	н	Н

No.	R1	R2	R3	R4	R5	R6
XA1345	снз-	<u>~</u>	н	<u></u>	Н	н
XA1346	СН3-		Н	ي ا	Н	н
XA1347	СН3		Н	Ŷ,	н	н .
XA1348	снз-	₽	Н	Ŷ,	н	Н
XA1349	снз-	\$\disp\\tilde{\O}	н	Ŷ,	Н	н
XA1350	СН3-		Н	Ŷ,	н	н
XA1351	СН3-		Н	2	н	н
XA1352	снз-	OO,	Н	Ŷ,	н	н
XA1353	снз-		н	Ŷ,	н .	н
XA1354	СН3-		н		Н	Н
XA1355 ·	СН3-		Н		н	Н
XA1356	СН3-		Н	Ŷ,	Н	н
XA1357	СН3-		н	<u>گ</u>	Н	Н
XA1358	СН3-		н	Ŷ,	Н	н
XA1359	СН3-		н		Ή	Н
XA1360	СН3-		н	بُ	Н	Н
XA1361	СН3-		Н	گې	Н	Н
XA1362	СН3~	TOP .	н	<u>گ</u>	н	Н
XA1363	СН3-	(C),	н	<u>,</u>	Н	н
XA1364	СН3-	Č.	н	T T	н	н
XA1365	СН3-		н	Ŷ,	н	н
XA1366	СН3-		Н	٤,	н	Н

No.	R1	R2	R3	R4	Inc	Inc
		~	1.3	0	R5	R6
XA1367	CH3-	(T)	Н	<u></u>	н	н
XA1368	снз-	TOP	Н	Î,	н	н .
XA1369	СН3~	, CIS	н	بُ	Н	Н
XA1370	снз-	Ĉ.	н	Ŷ,	н	Н
XA1371	СН3-		н	گ _ا	Н	н
XA1372	СН3-		Н	Ŷ,	н	Н
XA1373	СН3~	TOW	Н	Ů,	н	н
XA1374	снз-		н	Ŷ,	н	н
XA1375	снз-	ÇŢŗ	н	Ŷ,	н	н
XA1376	СН3-	CIN-1	н	Ŷ,	Н	Н
XA1377	CH3-	Ž _z	Н	Î,	н	Н
XA1378	снз-	TON	н	٨	Н	Н
XA1379	СН3-		Н	Ů,	н	Н
XA1380	снз-	N N	н	Ŷ,	Н	Н
XA1381	СН3-	" TN	н	Û,	н	Н
XA1382	СН3-	Y CIN	Н	Ly.	н	н
XA1383	СН3-		н	Ö	н	н
XA1384	СН3-	CI ⁸ +	н	•	н	н
XA1385	CH3-	Ū _s N	н	· ·	Н	н
XA1386	СН3-	, Oly	н	Ŷ,	Н	н
XA1387	СН3-	, CI'S	н	<u>گ</u> ,	н	Н
XA1388	СН3-	ÇÎ,	н	Ŷ,	Н	н

No.	R1	R2	Too	- Ind		
1.5.		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	R3	R4	R5	R6
XA1389	СН3-		н	<u></u>	н	н
XA1390	СН3-	CT?	н	<u></u>	н	н
XA1391	СН3-	, CCA	н	Ů,	н	н
XA1392	СН3-	, CTON	н	برگ	Н	н
XA1393	СН3-	ĈŢ,	Н	بُر	Н	н
XA1394	СН3-	CT,	н	٩	Н	н
XA1395	снз-	ČÇ _N	Н	Ŷ,	н	н
XA1396	снз-	"CI'	н	Ů,	н	н
XA1397	СН3-	y CISN	Н	2,	н	н
XA1398	СН3-	ĈŢ\$	н	Ĵ,	Н	н
XA1399	снз-	Ţ.	Н	Î,	н	н
XA1400	СН3-	,CC	Н	بر ا	Н	Н
XA1401	снз–	, CC	Н	2,	н	н
XA1402	СН3-	Č;	Н	گي.	Н	Н
XA1403	снз-	снз-	СН3-	Н	Н	Н
XA1404	СН3-	СН3СН2-	. СН3-	Н	н	н
XA1405	CH3-	/ \	СН3-	Н	Н	н
XA1406	СН3-	7	СН3-	н	н	н
XA1407	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	СН3-	Н	н	Н
XA1408	СН3-	人、	СН3-	н	н	н
XA1409	СН3-	7	СН3-	н	Н	н
XA1410	СН3-	丫	СН3-	н	Н	н

No.	R1	.R2	R3	ID4		
		000	173	R4	R5	R6
XA1411	CH3-		СН3-	н	н	н
XA1412	снз-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	СН3-	Н	н	н
XA1413	снз-	× ×	СН3-	Н	н	Н
XA1414	СН3-	7	СН3-	Н	Н	Н
XA1415	снз-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	снз-	Н	н	Н
XA1416	снз-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	снз-	н	н	Н
XA1417	снз-		СН3-	Н	н	Н
XA1418	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	снз-	Н	н	н
XA1419	СН3-	n-C8H17-	СН3-	Н	н	Н
XA1420	СН3-		снз-	Н	н	н
XA1421	СН3-	Q	СН3-	н	Н	н
XA1422	снз-		СН3-	н	Н	н
XA1423	СН3-		СН3-	Н	Н	H
XA1424	СН3-	\triangleright	СН3-	н	н .	н
XA1425	СН3-	\Diamond -i	СН3-	н	н	Н
XA1426	СН3-		СН3-	Н	н	Н
XA1427	СН3-	\bigcirc - \downarrow	СН3-	Н	н ,	Н
XA1428	СН3-		СН3-	Н	Н	н
XA1429	СН3-		СН3-	Н	н	Н
XA1430	СН3-		СН3-	Н	н	н
XA1431	СН3	⊘ m{	СН3-	Н	Н	н
XA1432	СН3-	Ç-i	СН3-	н	н	н

No.	R1	R2	R3	R4	Inc	
XA143	з снз-	F	СН3-	Н	R5 H	R6
XA143	4 CH3-	F-(СН3-	Н	н	н
XA143	5 CH3-	F-(){	СН3-	Н	Н	н
XA1436	6 СН3-	F—{	СН3-	н	н	н
XA1437	СН3-	CI	СН3-	Н	Н	н
XA1438	СН3-	CI	СН3-	н	н	н
XA1439	СН3-	C⊢	СН3-	н	н	н
XA1440	снз-	CH	СН3-	н	н	н
XA1441	СН3-	CH	СН3	н	н	Н
XA1442	CH3-	Br	СН3-	Н	Н	н
XA1443	CH3-	Br.	СН3-	Н	н	н
XA1444	снз-	Br—{}	СН3-	н	Н	н
XA1445	СН3-	Br—(СН3-	н	н	н
XA1446	СН3-	Br—⟨	СН3-	Н	н	Н
XA1447	СН3-	△	СН3-	Н	н	Н
XA1448	СН3-	├	CH3-	Н	н	н
XA1449	СН3-		СН3-	н	н	н
XA1450	СН3-	CH ₃	СН3-	н .	Н	н
XA1451	СН3-	H₃C <u></u>	СН3-	н	н	н
XA1452	СН3-	H ₃ C-{}	СН3-	н	Н	н
XA1453	CH3-	C ₂ H ₅ {	СН3-	н	н	н
XA1454	СН3-	n-C ₃ H ₇ {	СН3-	н	Н	н

No.	R1	R2	R3	R4	R5	R6
XA1455	снз-	n-C ₄ H ₉ —(снз–	Н	н	н
XA1456	снз-	OH OH	СН3-	Н	Н	н
XA1457	снз-	HO HO	снз-	Н	Н	н
XA1458	СН3-	HO-{	снз-	н	Н	н
XA1459	СН3-	OCH ₃	СН3-	н .	н	н
XA1460	снз-	H ₃ CO	снз-	Н	Н	н
XA1461	снз-	H ₃ CO-{}-{	СН3-	н	н	Н
XA1462	снз-	H₃CO- ()-{	СН3-	н	н	н
XA1463	снз-	H ₃ CO-{\bigs\mid_m\{	СН3-	Н	Н	Н
XA1464	снз-	OC ₂ H ₅	снз-	н	н	н
XA1465	снз-	C ₂ H ₅ O ∠_}–∤	CH3-	Н	н	Н
, XA1466	снз-	C ₂ H ₅ O-{{{ }}	СН3-	Н	Н	Н
XA1467	снз-	n-C ₃ H ₇ O-{{}}{	СН3	Н	Н	Н
XA1468 ·	снз-	n-C ₄ H ₉ O-{}-{	СН3-	Н	Н	н
XA1469	СН3	NO ₂	СН3~	Н	Н	Н
XA1470	снз-	O ₂ N	СН3-	Н	Н	Н
XA1471	СН3-	O ₂ N-{_}	СН3-	н	Н	Н
XA1472	СН3-	CN	СН3-	н .	Н	н
XA1473	СН3~	NC	снз-	н	Н	н
XA1474	СН3-	NC-{}-{	СН3-	н	Н	Н
XA1475	СН3-	NH ₂	СН3-	Н	Н	Н
XA1476	снз-	H ₂ N	СН3-	н	н	н

No.	R1	R2	R3	R4	R5	R6
XA1477		H ₂ N-{\bigcirc}{		Н		н
XA1478	СН3-	NMe₂ —	СН3-	Н	н	Н
XA1479	снз–	Me ₂ N	СН3-	н	н	н
XA1480	СН3-	Me ₂ N-(T)	СН3-	Н	Н	н
XA1481	СН3-	Cn-<	СН3-	н	н	H
XA1482	снз-		снз–	Н	н	н
XA1483	СН3-	Cu-⟨_}-;	СН3-	Н	Н	Н
XA1484	СН3-		снз-	Н	H	н
XA1485	снз-		СН3-	Н	Н	н
XA1486	СН3-	_\-_\\	СН3-	Н	Н .	н
XA1487	снз-	On- √	снз-	Н	н	н
XA1488	СН3-		снз-	Н	Н	н
XA1489	СН3	N-	снз–	Н	Н	н
XA1490	СН3-	H ₃ CN N	СН3-	Н	Н	н
XA1491	СН3-	H₃CN_N-⟨	СН3-	н	н	н
XA1492	снз-	H ₃ CN N-()-{	снз~	H	Н	н
XA1493	снз-	OCH ₃ F—	СН3-	н	н	н
XA1494	снз-	OCH₃ F—(S—I	CH3-	Н	н	н
XA1495	СН3-	OCH ₃	СН3-	н	н	н
XA1496	СН3-		СН3-	н	н	Н
XA1497	снз-	CCT	СН3-	н	н	н
XA1498	СН3-	СН3-	Н	н	снз-	н

No.	R1	R2	R3	R4	R5	R6
XA1499	СН3-	СН3СН2-	Н	Н	СН3-	Н
XA1500	СН3-	/ \\	Н	н	СН3-	Н
XA1501	снз-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	н	СН3-	Н
XA1502	СН3-	\\\ \	Н	Н	СН3-	н
XA1503	CH3-	人工	н	н	СН3-	н
XA1504	СН3-	~\^\	Н	н	СН3-	н.
XA1505	снз-	丫	н	н	снз-	н
XA1506	снз-	^	н	Н	СН3-	н
XA1507	снз-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	Н	СН3-	н
XA1508	снз-	大 ス	Н	н	СН3-	н
XA1509	снз-	7	н	Н	СН3-	н
XA1510	СН3-		н	н	снз-	Н
XA1511	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	н	снз-	н
XA1512	снз-		н	н	СН3-	н
XA1513	снз-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	н	СН3-	н
XA1514	СН3-	n-C8H17-	н	н	снз-	Н
XA1515	снз-		н	н	снз-	н
XA1516	СН3-	Q	H 	н	СН3-	н
XA1517	снз-		н	н	снз-	н
XA1518	СН3-	Qui	н	н	СН3-	н
XA1519	снз-	$\triangleright \rightarrow$	Н	Н	СН3-	Н
XA1520	снз-	├ ├ ├	Н	Н	СН3-	н

No.	R1	R2	R3	R4	R5	R6
					170	INU
XA1521	СН3-		Н	Н	СН3-	Н
XA1522	СН3-	\bigcirc	н	Н	СН3-	н
XA1523	снз-		н	Н	СН3-	н
XA1524	СН3-	_ -	н	Н	СН3-	н
XA1525	CH3-		Н	Н	СН3-	н
XA1526	снз-		н	Н	СН3-	н
XA1527	СН3-	_	Н	Н	СН3	н
XA1528	снз-	<u></u>	Н	Н	СН3-	н
XA1529	снз-	F-(-)	Н	Н	СН3-	н
XA1530	СН3-	F-(-)	Н	н	снз-	н
XA1531	Снз-	F—On-	Н	Н	снз	н
XA1532	СН3-	CI	Н	Н	снз-	н
XA1533	СН3	CI	н	Н	снз-	н
XA1534	СН3-	c⊢ ()—{	н	Н	снз-	Н
XA1535	снз-	c 	н	Н	снз-	н
XA1536	СН3-	CH	Н	Н	снз-	Н
XA1537	снз-	Br ∰-{	Н	н	снз-	н
XA1538	СН3-	Br. →	Н	Н	СН3-	н
XA1539	снз-	Br—{	Н	Н	СН3-	Н
XA1540	СН3-	Br—	Н	Н	СН3-	н
XA1541	СН3-	Вг—⟨∑ііі∮	Н	н	СН3-	Н
XA1542	СН3-	<u></u>	Н	Н	СН3-	н

No.	R1	R2	R3	R4	R5	
V44540	2			114	17.0	R6
XA1543	СН3-	<u></u>	H	Н	CH3-	н
XA1544	CH3-		н	н	СН3	Н
XA1545	снз-	CH ₃	Н	Н	СН3-	н
XA1546	снз-	H ₃ C	н	Н	СН3-	н
XA1547	СН3-	H ₃ C-{	Н	н	СН3-	н
XA1548	CH3-	C ₂ H ₅ —{	Н	н	СН3-	н
XA1549	СН3-	n-C ₃ H ₇ {}-{	н	Н	СН3	Н
XA1550	СН3-	n-C ₄ H ₉ -	Н	Н	СН3-	н
XA1551	СН3-	OH →	Н	Н	снз-	н
XA1552	СН3-	HO	Н	н .	СН3-	Н
XA1553	СН3	HO-{\bar{\bar{\bar{\bar{\bar{\bar{\bar	Н	Н	СН3-	н
XA1554	СН3-	OCH ₃	Н	Н	СН3-	н
XA1555	CH3~	H ₃ CO	н .	Н	СН3-	Н
XA1556	СН3-	H3CO-{	Н	Н	снз-	Н
XA1557	снз-	H₃CO-{\rightarrow}-{\rightarrow}-{\rightarrow}-{\rightarrow}	Н	Н	снз-	н
XA1558	СН3-	H ₃ CO-{\bigsim}\!\!\!	н	н	СН3-	н
XA1559	снз-		Н	н	СН3-	Н
XA1560	снз-		н	Н	снз-	Н
XA1561	снз-	C ₂ H ₅ O-{_}-{	Н	н	снз-	н
XA1562	СН3-	n-C ₃ H ₇ O-{{}}	Н	Н	снз-	н
XA1563	СН3-		н	Н	СН3-	Н
XA1564	СН3-	NO ₂	Н	Н	СН3-	Н

No.	R1	R2	R3	R4	R5	R6
VALEGE	0110	O ₂ N				
XA1565	СН3-	_ {	Н	H	СН3-	Н
XA1566	СН3-	O ₂ N-{}}	н	н	СН3-	Н
XA1567	СН3-	CN —	н	н	СН3	Н
XA1568	снз-	NC	н	н	СН3-	Н
XA1569	снз-	NC-{_}	н	Н	СН3-	н
XA1570	СН3-	NH ₂	Н	Н	СН3-	н
XA1571	СН3-	H ₂ N	н	H	СН3-	Н
XA1572	СН3-	H ₂ N-\(\bigcirc\){	н	н	СН3-	н
XA1573	СН3-	NMe ₂	н	Н	СН3-	Н
XA1574	снз-	Me ₂ N	Н	Н	СН3-	н
XA1575	СН3-	Me ₂ N-{	н	н	СН3-	н
XA1576	СН3-	CN-S	Н	н	СН3-	н
XA1577	СН3-		н	н	СН3-	н
XA1578	СН3-	_N1	н	н	СН3-	н
XA1579	снз-		н	н	СН3-	н
XA1580	снз-	_n-<	н	Н	снз-	Н
XA1581	СН3	___\\	Н	Н	СН3-	Н
XA1582	СН3-		Н	н	СН3-	Н
XA1583	СН3-	Q-	н	н	СН3-	н
XA1584	СН3-	o_n-<}-	Н	Н	СН3-	Н
XA1585	СН3-	H₃CN_N-	н	Н	СН3-	Н
XA1586	СН3-	H₃CN_N-⟨_}	н	Н	CH3-	н

No.	R1	R2	R3	R4.	R5	R6
XA1587	СН3-	H3CN_N-{_}-{	н	н	СН3~	Н
XA1588	СН3-	OCH ₃	н	Н	СН3-	н
XA1589	СН3-	OCH ₃	н	Н	СН3-	н
XA1590	СН3-	OCH ₃	н	Н	СН3-	н
XA1591	СН3~		н	н	СН3-	н
XA1592	снз-		Н	Н .	СН3-	н
XA1593	СН3-	СН3-	н	н	снз-	СН3-
XA1594	СН3-	СНЗСН2-	Н	Н	снз-	СН3-
XA1595	СН3-	∼ ∖\	Н	н	СН3-	СН3-
XA1596	СН3-	Y	н.	н	СН3-	CH3
XA1597	СН3~	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	н	СН3-	СН3-
XA1598	СН3-	Lr.	н	Ĥ	снз-	СН3-
XA1599	снз-		н	н	СН3-	СН3-
XA1600	СН3-	7	н	н	CH3-	СН3-
XA1601	снз-	^^\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	н	СН3-	СН3-
XA1602	снз-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	н	CH3-	СН3-
XA1603	снз-	<u> </u>	н	Н	СН3-	СН3-
XA1604	СН3-	7	Н	Н .	CH3-	CH3-
XA1605	СН3-	\\\\	Н	Н	СН3-	СН3-
XA1606	СН3-		н	Н	СН3-	СН3-
XA1607	СН3-	^ ~~```````````````````````````````````	н	н	СН3-	СН3-
XA1608	СН3-	\\\	н	Н	СН3-	СН3-

No.	R1	R2	R3	R4	R5	R6
VA1600	0110	001117				
XA1609	СН3-	n-C8H17-	Н	Н	СН3-	СН3-
XA1610	снз-		н	Н	СН3-	снз~
XA1611	снз-	Q	Н	н	СН3-	СН3-
XA1612	снз-		н	Н	СН3-	CH3-
XA1613	СН3-		Н	Н	снз-	CH3-
XA1614	СН3	$\triangleright \rightarrow$	н.	Н	снз-	СН3-
XA1615	снз-	\Diamond	н	Н	СН3-	СН3-
XA1616	СН3-	$\bigcirc \top$	н	Н	СН3-	СН3-
XA1617	СН3~	\bigcirc	н .	Н	СН3-	СН3
XA1618	СН3-	Ţ	н	Н	СН3-	СН3-
XA1619	СН3-		Н	Н	СН3-	СН3-
XA1620	СН3		Н	Н	СН3-	СН3
XA1621	снз-	⊘ (н	Н	СН3-	СН3-
XA1622	СН3-	F-1	Н	н	СН3-	снз-
XA1623	СН3-	F	н	Н	СН3-	СН3
XA1624	СН3-	F-{\}_{\}_{\}	н	н	CH3-	СН3-
XA1625	СН3-	F-{}-{	н	н	СН3-	снз-
XA1626	СН3-	F-{_}\\	н	н .	СН3-	СН3-
XA1627	СН3-	Cí	Н	Н	СН3-	СН3-
XA1628	СН3~	CI	н	Н	СН3-	CH3-
XA1629	СН3-	C⊢ ⟨ }–∤	н	н	СН3-	СН3-
XA1630	СН3-	C ├	Н	Н	СН3-	CH3-

No.	R1	R2	R3	R4	R5	R6
244004		C⊢ ∕ ∑⊪{			1.0	1.0
XA1631	CH3~	Br	Н	Н	CH3-	СН3~
XA1632	снз-		н	Н	СН3-	СН3-
XA1633	СН3-	Br.	н	Н	СН3-	снз-
XA1634	снз-	Br-{_}_{}	Н	Н	снз-	СН3-
XA1635	CH3-	Br-{_}_\	н	н	СН3-	СН3-
XA1636	СН3-	Br⊸{}	н	Н	СН3	СН3-
XA1637	СН3-	◯ -₁	н	Н	СН3-	СН3-
XA1638	СН3-	├	Н	н	СН3-	СН3-
XA1639	снз-	├ ── } .	н	н	СН3-	снз-
XA1640	снз-	CH₃	Н	Н	СН3-	СН3-
XA1641	снз-	H ₃ C	Н	н .	СН3-	СН3-
XA1642	снз-	H ₃ C-{_}	н	Н	СН3-	СН3-
XA1643	снз-	C ₂ H ₅ -{_}-{	н	н	СН3-	СН3-
XA1644	СН3~	n-C₃H ₇ {_}}{	н	н	СН3-	СН3-
XA1645	СН3~	n-C ₄ H ₉ {_}-{	н	н	СН3-	СН3-
XA1646	СН3-	OH OH	н	Н	СН3	снз-
XA1647	СН3-	HO.	н	Н	CH3-	снз-
XA1648	СН3-	но-{-}}	н	Н	СН3-	СН3-
XA1649	СН3-	\ <u></u> /{	н	Н	СН3-	CH3-
XA1650	СН3-	H₃CO —∤	н	Н	СН3-	СН3
XA1651	СН3-	H₃CO- ⟨_ }{	н	Н	СН3-	СН3-
XA1652	СН3-	H₃CO- ()	Н	Н	СН3-	СН3-

No.	R1	R2	R3	R4	R5	R6
XA1653	СН3-	H ₃ CO-{_}\\\	н	Н	снз-	снз-
XA1654	СН3-	OC ₂ H ₅	н	Н	снз-	СН3-
XA1655	снз-	C ₂ H ₅ O	Н	Н	СН3-	снз-
XA1656	СН3-	C ₂ H ₅ O-{{}	н	Н	СН3-	СН3-
XA1657 .	снз-	n-C ₃ H ₇ O-	Н	Н	снз–	СН3-
XA1658	СН3-	n-C ₄ H ₉ O-	н	Н	снз-	СН3-
XA1659	СН3-	NO ₂	н	Н	снз-	СН3-
XA1660	СН3-	O ₂ N	н	н	снз-	снз-
XA1661	снз-	O ₂ N-{_}	Н	н	СН3-	СН3-
XA1662	СН3	CN	н	Н	СН3-	СН3-
XA1663	CH3-	NC	н	н	СН3-	СН3-
XA1664	СН3-	NC-{}	Н	н	СН3-	снз–
XA1665	снз-	NH ₂	Н	Н	СН3-	СН3
XA1666	СН3-	H ₂ N	н	Н	СН3-	снз-
XA1667	СН3-	H ₂ N-\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	н	СН3-	СН3-
XA1668	СН3-	NMe₂	н	Н	СН3-	снз-
XA1669	снз-	Me ₂ N	н	Н	СН3-	СН3-
XA1670	СН3-	Me ₂ N-⟨¯¯}∤	Н	H ,	СН3-	СН3-
XA1671	СН3-		Н	Н	СН3-	снз-
XA1672	СН3-		Н	Н	СН3-	СН3-
XA1673	СН3-		Н	Н	СН3-	СН3-
XA1674	СН3-		Н	Н	СН3-	СН3-

No.	R1	R2	R3	R4	R5	R6
XA1675	СН3-	Or - ⊘_	н	Н	СН3-	СН3-
XA1676	СН3-	\(\rightarrow\)	н	н	СН3	снз–
XA1677	снз-	N-√	H	Н	СН3-	снз-
XA1678	снз-		Н	Н	СН3-	СН3
XA1679	снз-	O_N-(_}-1	Н	Н	СН3-	СН3-
XA1680	Снз-	H ₃ CN N—	н	н	сн3-	СН3-
XA1681	снз-	H ₃ CN N-	н	Н	снз-	СН3-
XA1682	СН3-		Н	Н	СН3-	СН3-
XA1683	СН3-	OCH₃ F—{}	Н	Н	СН3-	СН3-
XA1684	CH3-	OCH ₃	н	Н	СН3-	СН3-
XA1685	CH3-	OCH ₃	Н	н	снз-	СН3-
XA1686	СН3-		н	Н	СН3-	СН3-
XA1687	СН3-		Н	н	снз-	СН3-
XA1688	СН3-	снз-	н	снз-	СН3-	СН3-
XA1689	снз-	снзсн2-	н	СН3-	СН3-	СН3-
XA1690	СН3-	<u></u>	Н	СН3-	СН3-	СН3-
XA1691	СН3-	Y	Н	СН3-	СН3-	СН3-
XA1692	СН3-	√ √\	н	СН3	снз-	СН3-
XA1693	СН3-	人人	н	СН3-	снз-	СН3-
XA1694	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	СН3-	снз-	снз-
XA1695	СН3-	丫	н	снз-	снз-	СН3-
XA1696	СН3-	^	н	снз-	снз-	СН3-

No.	R1	R2	R3	R4	R5	R6
XA1697	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	снз-	снз-	СН3-
XA1698	СН3-	Xr	н	СН3-	снз-	СН3-
XA1699	СН3-	7	Н	СН3-	СН3-	СН3-
XA1700	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	СН3-	СН3-	СН3-
XA1701	СН3-		н	СН3-	СН3-	СН3-
XA1702	СН3-	~~~``	Н	СН3-	СН3-	снз-
XA1703	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	СН3-	снз-	снз-
XA1704	снз-	n-C8H17-	Н	СН3-	снз-	снз-
XA1705	СН3-		н	СН3-	СН3-	СН3
XA1706	СН3-		Н	СН3-	СН3-	СН3-
XA1707	СН3-		н	СН3-	СН3-	СН3-
XA1708	CH3-		н	СН3-	CH3-	СН3-
XA1709	СН3-	→ ·	н	СН3-	СН3-	СН3-
XA1710	СН3-	\Diamond	н	СН3-	СН3-	СН3
XA1711	CH3-	$\bigcirc \!$	н	СН3-	СН3-	СН3-
XA1712	СН3-		н	СН3-	СН3-	СН3-
XA1713	СН3-	\bigcirc \dashv	н	СН3-	СН3-	СН3-
XA1714	СН3-	⟨ }-₁	н	СН3-	СН3-	СН3-
XA1715	СН3-		Н	СН3-	СН3-	СН3-
XA1716	СН3-	⊘ …{	Н	СН3-	СН3-	СН3-
XA1717	СН3-	◯ -i	н	СН3-	СН3-	СН3-
XA1718	СН3-	<u></u>	Н	СН3-	СН3~	СН3-

No.	R1	R2	R3	R4	los	IDO
-		- (1)	1.0	11/4	R5	R6
XA1719	СН3-		н	СН3-	СН3-	СН3-
XA1720	СН3-	F-(н	СН3-	СН3-	СН3-
XA1721	СН3-	F-(_)(Н	CH3-	снз-	снз-
XA1722	СН3-	CI	н	СН3-	СН3-	СН3-
XA1723	СН3-	CI	н	СН3-	СН3-	СН3-
XA1724	СН3-	CH	Н	СН3-	СН3-	СН3
XA1725	СН3-	CH	Н	СН3-	СН3-	СН3-
XA1726	СН3-	CH	Н	СН3-	СН3-	СН3-
XA1727	СН3-	Br	н	снз-	СН3-	СН3-
XA1728	снз–	Br.	Н	снз-	СН3-	СН3-
XA1729	СН3-	Br—{_}{	н	снз-	СН3-	СН3-
XA1730	СН3-	Br—{}	Н	снз-	СН3-	СН3-
XA1731	снз-	Br———	Н	СН3-	СН3	СН3-
XA1732	снз-	 	н	СН3-	СН3	снз-
XA1733	снз-	<u></u>	н	СН3-	СН3	СН3-
XA1734	СН3-	├	н	СН3-	СН3-	СН3-
XA1735	СН3-	CH₃ —}	н	СН3-	СН3-	снз-
XA1736	СН3-	H ₃ C	н	CH3-	СН3-	СН3-
XA1737	СН3-	H³C-∕{_}	н	СН3-	СН3-	СН3-
XA1738	СН3-	C ₂ H ₅ —{{{1}}	Н	СН3-	СН3-	СН3-
XA1739	СН3-	n-C ₃ H ₇ -{_}-{	н	снз-	СН3-	снз-
XA1740	СН3-	n-C₄H ₉ {_}}-{	Н	СН3-	СН3-	СН3-

No.	R1	R2	R3	R4	R5	R6
		ЮH	-	104	100	INU .
XA1741	СН3-		Н	СН3-	СН3-	СН3-
XA1742	СН3-	HO	H	СН3-	СН3-	снз-
XA1743	СН3~	HO-{}-{	н	снз-	СН3-	СН3-
XA1744	CH3~	OCH₃	н	СН3-	СН3-	СН3-
XA1745	СН3-	H₃CO 	н	СН3-	снз-	СН3–
XA1746	СН3-	H ₃ CO-{{}	Н	СН3-	СН3-	CH3-
XA1747	СН3	H₃CO- ()-{	Н	СН3-	СН3-	СН3-
XA1748	CH3-	H ₃ CO-{}\mid	н	снз-	снз-	СН3-
XA1749	СН3-	OC ₂ H ₅	Н	снз-	СН3-	СН3-
XA1750	СН3-		Н	СН3-	СН3-	СН3-
XA1751	СН3-	C ₂ H ₅ O-{	н	СН3-	СН3-	СН3-
XA1752	СН3-	n-C ₃ H ₇ O-	Н	СН3-	СН3-	СН3-
XA1753	СН3-	n-C ₄ H ₉ O-	Н	СН3-	СН3-	CH3-
XA1754	СН3-	NO ₂	н	СН3-	СН3-	СН3-
XA1755	СН3-	O ₂ N	н	снз-	СН3-	СН3-
XA1756	снз-	O ₂ N-{_}{	н	СН3	СН3-	снз-
XA1757	СН3-	CN	н	снз-	СН3-	СН3-
XA1758	СН3-	NC	н	СН3-	СН3-	СН3-
XA1759	СН3-	NC-{}	н	СН3-	СН3-	СН3-
XA1760	снз-	NH ₂	н	СН3-	СН3-	СН3-
XA1761	СН3-	H ₂ N	н	СН3-	СН3-	СН3-
XA1762	снз-	H ₂ N-{}	Н	СН3-	СН3-	СН3-

No.	R1	R2	R3	R4	R5	R6
XA1763	снз-	NMe ₂	Н	СН3-	снз-	CH3-
XA1764	СН3~	Me ₂ N →	н	СН3-	СН3-	СН3-
XA1765	снз-	Me ₂ N-{	н	CH3-	СН3-	СН3-
XA1766	СН3-	CN-C	н	снз-	СН3	СН3~
XA1767	снз-	CN-C	Н	снз~	снз-	СН3-
XA1768	СН3-		н	СН3-	СН3-	снз-
XA1769	снз-		Н	СН3-	СН3-	СН3-
XA1770	СН3-	Or-<>	н	СН3-	СН3-	СН3-
XA1771	СН3-	_\-__\	н	СН3-	СН3-	СН3-
XA1772	СН3-		Н	снз-	СН3-	СН3-
XA1773	СН3-		н	снз-	СН3-	СН3-
XA1774	СН3-	○ N- ()-{	н	СН3-	СН3-	СН3-
XA1775	Сн3-	H3CN N-	Н	СН3-	СН3-	CH3-
XA1776	СН3-	H₃CN N-	н	CH3-	СН3-	СН3-
XA1777	СН3-	H3CN_N-{_}\	н	СН3-	СН3-	снз-
XA1778	СН3~	OCH₃ F-{\rightarrow}{	н	СН3-	СН3-	СН3-
XA1779	снз-		н	СН3-	СН3-	снз-
XA1780	СН3-	OCH ₃ F——	н	СН3-	СН3-	снз-
XA1781	СН3-		Н	СН3-	СН3-	СН3-
XA1782	СН3-	CO'	Н	СН3-	СН3-	СН3-
XA1783	СН3СН2-	СН3~	н	Н	Н	н
XA1784	СН3СН2-	СН3СН2-	Н	Н	н	н

No.	R1	R2	R3	R4	R5	R6
XA1785	СН3СН2-	^ \	н	Н	н	Н
XA1786	СН3СН2-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	Н	н	Н
XA1787	СН3СН2-	√ \	н	н	н	Н
XA1788	СН3СН2-	人	Н	Н	н	н
XA1789	СНЗСН2-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н	н	Н
XA1790	СН3СН2-	7	н	Н	Н	н
XA1791	СН3СН2-	^	н	Н	Н	Н
XA1792	СН3СН2-	\ \	н	н	Н	н
XA1793	СН3СН2-	Xx	н	н	H	Н
XA1794	СН3СН2-	\nearrow	Н	Н	Н	н
XA1795	СН3СН2-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н	Н	н
XA1796	СНЗСН2-		Н	Н	н	н .
XA1797	СН3СН2-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	н	Н	н
XA1798	СН3СН2-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	н	н	н
XA1799	СН3СН2-	n-C8H17-	Н	н	Н	н
XA1800	СН3СН2-		Н	н	Н	Н
XA1801	СН3СН2~		Н	н	н	н
XA1802	СН3СН2-		н	H ,	Н	н
XA1803	СН3СН2-		н	Н	Н	Н
XA1804	СН3СН2-	$\triangleright \rightarrow$	н	н	Н	н
XA1805	CH3CH2-	\Diamond - \downarrow	Н	н	Н	н
XA1806	СН3СН2-	\bigcirc	Н	Н	Н	н

No.	R1	R2	R3	R4	R5	R6
XA1807	СНЗСН2-	\bigcirc -1	н	н	Н	Н
XA1808	СНЗСН2-		н	н	н	н
XA1809	СН3СН2-	◯ ─-∤	Н	Н	Н	н
XA1810	СНЗСН2-		н	н	Н	н
XA1811	СН3СН2-	₩	н	н	Н	н
XA1812	СНЗСН2-	△	н	Н	Н	н
XA1813	СН3СН2-	<u></u> {	н	Н	н	н
XA1814	СН3СН2-	F-(-){	Н	н	н	н
XA1815	СН3СН2-	F-(-)(-)(-)(-)(-)(-)(-)(-)(-)(-)(-)(-)(-)(-)(-)(-)(-)(-)	H	н	н	н
XA1816	СН3СН2-	F—()····{	Н	н	Н	н .
XA1817	СН3СН2-	CI →	н	Н	Н	н
XA1818	СН3СН2-	CI →	н	н	Н	Н
XA1819	СН3СН2-	c⊢<	н	Н	н	н .
XA1820	СН3СН2-	c⊢ ()—;	н	Н	Н	Н
XA1821	СН3СН2-	CH	Н	н	Н	Н
XA1822	СН3СН2-	Br	н	н	Н	н
XA1823	СН3СН2-	Br.	Н	н	Н	н
XA1824	СН3СН2-	Br- (){	Н	Н	н	н
XA1825	СН3СН2-	Br—	Н	Н	н	н
XA1826	СН3СН2-	Br—(н	н	н	н
XA1827	СН3СН2-		н	н	н	н
XA1828	СНЗСН2-	<u></u>	н	Н	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA1829	снзсн2-	H	н	Н	Н	Н
XA1830	СНЗСН2-	CH ₃	н	Н	Н	н
XA1831	СН3СН2-	H ₃ C	н	Н	н	н
XA1832	СНЗСН2-	H ₃ C-{	Н	Н	H	н
XA1833	СН3СН2-		Н	Н	Н	н
XA1834	СН3СН2-	n-C ₃ H ₇ {_}	н	н	н	Н
XA1835	СН3СН2-	n-C ₄ H ₉ -	н	н	н	н
XA1836	СН3СН2-	OH →	н	Н	Н	н
XA1837	СН3СН2-	HO HO	Н	Н	Н	Н
XA1838	СН3СН2-	HO-{\bigs_+	н	Н	н	н
XA1839	СН3СН2-	OCH ₃	н	Н	Н	Н
XA1840	СН3СН2-	H ₃ CO	Н	H	Н	Н
XA1841	СН3СН2-	H ₃ CO-{	Н	Н	н .	Н
XA1842	СН3СН2-	H ₃ CO-{_}-{	н	н	н	нÌ
XA1843	СН3СН2-	H ₃ CO-	н	н	н	Н
XA1844	СН3СН2-	OC ₂ H ₅	Н	Н	н	Н
XA1845	СНЗСН2-	C ₂ H ₅ O	Н	н	н	н
XA1846	СН3СН2-	C ₂ H ₅ O-{{}}	н	н	н	Н
XA1847	СН3СН2-	n-C ₃ H ₇ O-	Н	н	н	Н
XA1848	СН3СН2-	n-C ₄ H ₉ O-⟨}-{	Н	н	н	н
XA1849	СН3СН2-	NO ₂	Н	Н	н	н
XA1850	СН3СН2-	O ₂ N	Н	Н	н	Н

No.	R1	R2	R3	R4	R5	R6
XA1851	СН3СН2-	O ₂ N-{	н	н	н	н
XA1852	СН3СН2-	CN	н	н	Н	Н
XA1853	СН3СН2-	NC	н	н	Н	Н
XA1854	снзсн2-	NC-{}	н	Н	Н	Н
XA1855	снзсн2-	NH ₂	н	н	Н	Н
XA1856	снзсн2-	H ₂ N	н	н	н	Н
XA1857	снзсн2-	H ₂ N-()-(Н	Н	Н	н
XA1858	СНЗСН2-	NMe₂ →	н	Н	н	н
XA1859	СН3СН2-	Me ₂ N	н	Н	н	н
XA1860	СНЗСН2-	Me ₂ N-\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н	н	Н
XA1861	СН3СН2-		Н	Н	н .	н
XA1862	СНЗСН2-	Cn-<	н	Н	Н	н
XA1863	СН3СН2-	; 	н	н	н	н
XA1864	СНЗСН2-		н	Н	Н	Н
XA1865	СН3СН2-		Н	н	Н	н
XA1866	СН3СН2-		н	н	Н	Н
XA1867	CH3CH2-		Н	Н	Н	Н
XA1868	CH3CH2~		Н	н	Н	н
XA1869	СН3СН2-	○ V - ()-1	Н	н	Н	н
XA1870	CH3CH2-	H₃CN N-	Н	н .	н	н
XA1871	СН3СН2-	H₃CN_N-⟨_}	Н	н	н	Н
XA1872	СН3СН2-	H₃CN_N-{_}	Н	н	н	н

No.	R1	R2	R3	R4	R5	R6
XA1873	Снзсн2-	OCH ₃	Н	Н	Н	Н
XA1874	СНЗСН2-	OCH ₃ F—()—(н	н	Н	н
XA1875	СН3СН2-	OCH ₃ F—(Н	н	н	н
XA1876	СНЗСН2-		н	н	н	н
XA1877	СН3СН2-		Н	н	Н	Н
XA1878	СН3СН2-	СН3-	Н	СН3-	н	н
XA1879	СН3СН2-	СН3СН2-	н	СН3	н	н
XA1880	СН3СН2-	^ \`	Н	СН3-	н	н
XA1881	снзсн2-	Y	н	СН3-	Н	Н
XA1882	СН3СН2-	\\\\	н	сн3-	н	н
XA1883	СНЗСН2-	人人	н	СН3-	Н	н
XA1884	СНЗСН2-	γ	Н	СН3-	Н	Н
XA1885	СНЗСН2-	*	Н	снз-	Н	н
XA1886	СНЗСН2-	^	н	СН3-	н	Н
XA1887	снзсн2-	\ ;	н	СН3-	Н	н ,
XA1888	СНЗСН2-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	СН3-	Н	н
XA1889	СН3СН2-	→	Н	СН3-	Н	н
XA1890	СН3СН2-	\\\\\	Н	СН3-	н	н
XA1891	СНЗСН2-		Н	СН3-	Н	н
XA1892	СНЗСН2-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	СН3-	Н	н
XA1893	СНЗСН2-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	СН3-	Н	Н
XA1894	Снзсн2-	n-C8H17-	Н	CH3-	Н	Н

No.	R1	R2	R3	R4	R5	R6
XA1895	СН3СН2~		н	СН3-	н	н
XA1896	СН3СН2-	Qu	н	СН3-	н	Н
XA1897	снзсн2-		Н	СН3-	н	Н
XA1898	СН3СН2-		н	снз-	Н	н
XA1899	СНЗСН2-	\triangleright	Н	СН3-	H ·	н
XA1900	СН3СН2-	\Diamond	н	СН3-	н	н
XA1901	СН3СН2-	$\bigcirc \vdash$	н	СН3-	Н	н
XA1902	СН3СН2-	\bigcirc - \downarrow	Н	СН3-	Н	Н
XA1903	СН3СН2-	$\bigcup_{i=1}^{n}$	н	СН3-	н	н
XA1904	СН3СН2-	\bigcirc \dashv	Н	CH3-	Н	н
XA1905	СН3СН2-		Н	СН3-	Н	н
XA1906	СН3СН2-	⊘ {	н	СН3-	Н	н
XA1907	СН3СН2-	F 	Н	CH3-	Н	н
XA1908	СН3СН2-	F	н	СН3-	Н	н
XA1909	СН3СН2-	F-{_}-{	Н	СН3-	н .	н
XA1910	СН3СН2-	F-(-)	Н	CH3-	Н	Н
XA1911	СН3СН2-	F	Н	СН3-	Н	н
XA1912	СН3СН2-	CI	Н	СН3-	н	н
XA1913	СН3СН2-	CI	н	СН3-	н	Н
XA1914	СНЗСН2-	CH{	н	СН3-	Н	н
XA1915	СН3СН2-	C⊢ ()→	Н	СН3-	н	Н
XA1916	СН3СН2-	C⊢∕_}⊪{	н	СН3-	Н	н

No.	R1	R2	R3	R4	R5	R6
XA1917	СНЗСН2-	Br —∤	н	СН3-	н	Н
XA1918	СНЗСН2-	Br.	Н	СН3	н	Н
XA1919	снзсн2-	Br—{}	Н	СН3-	н	н
XA1920	СНЗСН2-	Br—{_>-{	н	СН3-	н	н
XA1921	СНЗСН2-	Br—⟨⟩⊪{	Н	СН3-	н	Н
XA1922	СНЗСН2-	□	н	СН3-	н	Н
XA1923	СН3СН2-		Н	СН3-	н	н
XA1924	СН3СН2-	├ ──}-{	н	снз-	Н	н
XA1925	СН3СН2-	CH₃	н .	CH3	н	н
XA1926	СН3СН2-	H ₃ C	н	CH3-	Н	Н
XA1927	СН3СН2-	H ₃ C-{_}-{	н	CH3-	Н	Н
XA1928	СН3СН2-	C ₂ H ₅ -{}	н	CH3-	Н	Н
XA1929	СНЗСН2-	n-C ₃ H ₇ {}	н	СН3-	Н	н
XA1930	СН3СН2-	n-C ₄ H ₉ —{_}_{}	н	CH3-	Н	Н
XA1931	снзсн2-	OH	н	CH3-	Н	Н
XA1932	СН3СН2-	HO .	Н	СН3-	Н	Н
XA1933	СН3СН2-	но-{};	н	CH3-	Н	Н
XA1934	СН3СН2-	OCH₃	Н	CH3-	н	Н
~XA1935	СН3СН2-	H₃CO ————————————————————————————————————	Н	CH3-	Н	Н
XA1936	СН3СН2-	H ₃ CO-{	Н	СН3-	Н	н
XA1937	СН3СН2-	H₃CO - {_}}-{	Н	СН3-	Н	н
XA1938	СН3СН2-	H ₃ CO-{_}\\\	н	Снз–	н	н

No.	R1	R2	R3	R4	R5	R6
XA1939	СН3СН2-	OC ₂ H ₅	Н	СН3-	Н	Н
XA1940	СНЗСН2-	C ₂ H ₅ O	Н	снз-	Н	н
XA1941	СНЗСН2-	C ₂ H ₅ O-{{}	Н	СН3-	Н	н
XA1942	СН3СН2-	n-C ₃ H ₇ O-	н	СН3-	Н	н
XA1943	СН3СН2-	n-C ₄ H ₉ O-	н	СН3-	н	н
XA1944	СН3СН2-	NO ₂	н	СН3-	н	н
XA1945	СН3СН2-	O ₂ N	Н	СН3-	Н	н
XA1946	СН3СН2-	O ₂ N-{	н	СН3-	Н	н
XA1947	СН3СН2-	CN	н ,	СН3-	н	н .
XA1948	СН3СН2-	NC	н	СН3~	Н	н
XA1949	СН3СН2-	NC-{_}	Н	СН3-	н	н
XA1950	СН3СН2-	NH ₂	н	СН3-	Н	н
XA1951	СНЗСН2-	H ₂ N	н	снз-	Н	Н
XA1952	СН3СН2-	H ₂ N-{}	н	СН3-	Н	н
XA1953	СНЗСН2-	NMe₂	н	СН3-	н	н
XA1954	СНЗСН2-	Me ₂ N	н	снз-	Н	н
XA1955	СНЗСН2-	Me₂N-{	н	CH3-	н	Н
XA1956	СН3СН2-		н	СН3-	н	н
XA1957	СН3СН2-		н	CH3-	Н	н
XA1958	СН3СН2-	CN-{}-1	Н	СН3-	Н	Н
XA1959	СН3СН2-		н	СН3-	н	н
XA1960	СН3СН2-		Н	CH3-	н	Н

No.	R1	R2	R3	R4	R5	R6
XA1961	СН3СН2-	_\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	СН3~	н	н
XA1962	СН3СН2-		н	СН3-	Н	н
XA1963	СН3СН2-		н	CH3	Н	Н
XA1964	СН3СН2-	<u></u>	н	CH3-	Н	Н
XA1965	CH3CH2-	H ₃ CN N—	Н	СН3-	н	Н
XA1966	СН3СН2-	H₃CN N-	Н	СН3-	Н	Н
XA1967	СН3СН2-	H3CN N-()-{	н	СН3-	Н	Н
XA1968	СН3СН2-	OCH₃ F—∰	Н	снз-	н	н
XA1969	СН3СН2-	OCH₃ F—✓—	н	СН3-	н	н
XA1970	СН3СН2-	OCH ₃	н	СН3-	н	Н
XA1971	СН3СН2-		н	СН3-	Н	н
XA1972	СН3СН2-		н	снз-	н	Н

No.	STRUCTURE
XA1973	CI N N O CH ₃
XA1974	Br N N O CH ₃
XA1975	CH ₃ O N N N CH ₃ O CH ₃ O CH ₃
XA1976	CIH CIH N N N O CH3

XA1977	CIH CIH N N N N N N N N N N N N N N N N N N N
XA1978	
XA1979	CI N CH ₃
XA1980	HCI HCI N N N CH ₃

XA1981	.N.
	HCI HCI HCI N N CH ₃
XA1982	N
	HCI HCI HCI HCI N N N N O CH ₃
XA1983	CIH N
·	CIH N N CH ₃
XA1984	CIH N
	CI N N O CH ₃

V44005	
XA1985	CIH CIH N N O CH ₃
XA1986	CIH CIH CH3 CH3
XA1987	CIH CIH N CH3
XA1988	HCI HCI N H ₃ C HCI HCI N N N N O CH ₃

VA4000	
XA1989	HCI HCI N N N N O CH ₃
XA1990	HCI HCI N N N N O CH ₃
XA1991	CH ₃ HCI N CH ₃ O CH ₃ O
XA1992	CIH CIH N N CH ₃

VA4002	
XA1993	CIH CIH N N O CH ₃
XA1994	CIH CIH N N CH ₃
XA1995	CIH CIH N N O CH3 CH3 CH3
XA1996	CH ₃ CIH CIH N CH ₃

V44007	
XA1997	CH ₃ CIH CIH N N N N N N CH ₃ C CH ₃
XA1998	CIH CIH N N O CH ₃
XA1999	HCI CIH CIH N N CH ₃ C CH ₃
XA2000	CIH CIH N N N N N N N N N CH ₃

XA2001	CIH CIH N N CH ₃
XA2002	CIH CIH N N O CH ₃ CCH ₃
XA2003	N N CH ₃
XA2004	HCI HCI N N N CH ₃

VACCOE	
XA2005	HCI HCI CI N CI CH ₃
XA2006	HCI HCI HCI N N N N N N N N N N N N N N N N N N N
XA2007	HCI HCI HCI N N N N N CH ₃

XA2008	
	H ₃ C N N N N O CH ₃
XA2009	HCI N N N O CH ₃
XA2010	HCI HCI CH ₃
XA2011	N N N O CH ₃

XA2012	
	H ₃ C-SOOH CH ₃
XA2013	
·	HCI HCI N HCI N CH ₃
XA2014	CH ₃ HCI HCI N HCI N CH ₃ CH ₃
XA2015	HCI HCI N N N N O CH ₃

XA2016	HCI HCI HCI CH ₃
XA2017	HCI CH ₃ HCI N N O CH ₃ O CH ₃
XA2018	N N N N CH ₃
XA2019	H ₃ C N N N N O CH ₃

VA2020	
XA2020	HO N N N N N N N N N N N N N N N N N N N
XA2021	H ₃ C O N N N O CH ₃
XA2022	
XA2023	CIH Z H ₃
XA2024	HO N N N O CH ₃

V4000	
XA2025	H ₃ C N N N CH ₃ N CH ₃ O CH ₃
XA2026	H ₃ C N N N O CH ₃
XA2027	H ₃ C S O N N N O CH ₃
XA2028	N N CH ₃

XA2029	
	F F O CH ₃
XA2030	F F
XA2031	H ₃ C N N N CH ₃
XA2032	N N N O CH ₃

VA0000	
XA2033	N N N CH ₃
XA2034	CH ₃ CH ₃ CH ₃ O N N N N O CH ₃
XA2035	CH ₃ O CH ₃

XA2036	T
	CI N N N CH ₃
XA2037	CI CI N N N CH ₃
XA2038	CI CH ₃
XA2039	O-N N-N-N-O CH ₃

S(40040	All Minimum
XA2040	N N N N O CH ₃
XA2041	N N CH'S
XA2042	H ₃ C O CH ₃
XA2043	H ₃ C O O O O O O O O O O O O O O O O O O O

XA2044	
	CH ₃ S N N N CH ₃ CH ₃
XA2045	H ₃ C O CH ₃
XA2046	H ₃ C CH ₃ N N N CH ₃
XA2047	H ₃ C N N N O CH ₃

XA2048	
	H ₂ N N CH ₃
XA2049	H ₃ C ON N N N O CH ₃
XA2050	Br N N N CH ₃
XA2051	Br N O CH ₃

XA2052	
	Br N N N CH ₃
XA2053	H ₃ C O N CH ₃ O CH ₃
XA2054	H ₃ C
XA2055	H ₃ C

Table-2					
		R ₃ R ₂ N N R ₄ R ₅			
No	R1	R2	R3	R4	R5
XB1	СН3-	СН3-	н	Н	Н
XB2	СН3-	СН3СН2-	н	Н	н
ХВ3	СН3-	✓ \	Н	н	Н
XB4	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	Н	Н
XB5	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	H.	Н
XB6	CH3-	人小	Н	н	, н
XB7	снз-	7,	н	Н	н
XB8	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	ч	Н	н
XB9	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н	Н
XB10	СН3-	~~~	H	н	н
XB11	СН3-	~~~	کر H	Н .	н
XB12	снз-		ر الم	н	н
XB13	СН3-	Q	н	Н	Н
XB14	СН3-		н	Н	н
XB15	СН3-		Н	н	Н
XB16	СН3-	◯ —∤	Н	Н	н
XB17	СН3-	\	Н	Н	н

No	R1	R2	R3	R4	R5
XB18	снз-	F	Н	н	н
XB19	СН3-	F-{_}-{	Н	Н	Н
XB20	СН3-	CI →	н	Н	н
XB21	СН3-	CI	Н	Н	н
XB22	СН3-	C⊢(Н	Н	Н
XB23	СН3-	Br →	Н	Н	Н
XB24	СН3-	Br	Н	Н	н
XB25	СН3-	Br─∰	н	Н	н
XB26	СН3-	CH₃	Н	Н	Н
XB27	СН3-	H ₃ C	Н	Н	н
XB28	CH3-	H ₃ C-_\	н	Н	н
XB29	СН3-	C ₂ H ₅ —{}	Н	Н	н
· XB30	СН3	OH OH	н	н	н
XB31	СН3-	HO HO	Н	Н	Н
XB32	СН3-	HO-{}	Н	Н	Н
XB33	СН3-	OCH₃	Н	Н	н
XB34	СН3-	H ₃ CO	н	н	Н
XB35	СН3-	H ₃ CO-{	н	Н	н
XB36	СН3-	C ₂ H ₅ O-{	Н	н	н
XB37	снз-	NO ₂	н	Н	н
XB38	СН3-		Н	Н	н

No	R1	R2	R3	R4	R5
XB39	СН3-	O ₂ N-{	н	Н	Н
XB40	CH3-	CN →	Н	Н	Н
XB41	СН3-	NC	н	Н	н
XB42	СН3-	NC-{}	н	Н	Н
XB43	СН3	ChO,	Н	н	н
XB44	СН3-		н	н	н
XB45	СН3-	CCY	Н	н	н
XB46	СН3-	Q'N	Н	Н	Н
XB47	СН3-	FON	н	Н	Н
· XB48	СН3-		н	Н	н
XB49	СН3-	On the	Н	Н	н
XB50	снз-		он	Н	н
XB51	снз-	F	он	н	Н
XB52	СН3-	<u></u> ;	он	Н	н
XB53	снз-	F-(-)(он	Н	н
XB54	СН3-	CI	он	Н	н
XB55	СН3-	CI	OH	Н	Н
XB56	снз-	CH	он	Н	Н
XB57	снз-	Br ∰∤	он	Н	Н
XB58	СН3-	Br.	он	Н	. Н
XB59	СН3-	Br—{}	он	Н	Н

No	R1	R2	R3	R4	R5
XB60	CH3-	CH ₃	он	н	н
XB61	СН3-	H ₃ C	он	Н	Н
XB62	СН3-	H ₃ C-{	он	Н	н
XB63	СН3-	C ₂ H ₅ —{}	он	Н	н
XB64	СН3-	OH ○	ОН	н	Н
XB65	СН3-	HO	ОН	Н	Н
XB66	СН3-	HO-{_}-{	он	н	Н
XB67	СН3-	OCH ₃	он	Н	Н
XB68	СН3-	H ₃ CO	он	Н	н
XB69	СН3-	H ₃ CO-{_}	он	Н	H,
XB70	СН3-	C ₂ H ₅ O-{}-{	он	Н	н
XB71	СН3-	NO ₂	он	Н	н
XB72	СН3-	O ₂ N	он	Н	н
XB73	снз-	O ₂ N-{	он	Н	н
XB74	СН3-	CN	ОН	Н	Н
XB75	CH3-	NC	он	Н	Н
XB76	СН3-	NC-{}-{	он .	Н	н
XB77	снз-	Cho	он	н	Н
XB78	снз-		он	Н	н
XB79	СН3-	CC,	ОН	н	н
XB80	снз-		CN	н	Н

No	R1	R2	R3	R4	To:
XB81	снз-	F	CN	H	R5 H
XB82	CH3-	F	CN	Н	н
XB83	СН3-	F-{_}-{	CN	Н	н
XB84	снз-	CI →	CN	Н	Н
XB85	СН3	CI	CN	н	Н
XB86	СН3-	C{}-{	CN	Н	Н
XB87	СН3-	Br	CN	Н	Н
XB88	СН3-	Br.	CN	н	н
XB89	СН3-	Br—{	CN	н .	н
XB90	СН3-	CH ₃	CN	н	Н
XB91	СН3-	H ₃ C;	CN	н	н
XB92	СН3~	H ₃ C-{	CN	Н	н
. XB93	CH3-		CN	Н	н
XB94	СН3-	OH ○	CN	Н	Н
XB95	CH3-	HO HO	CN	н	н
XB96	СН3-	HO-{}	CN	н	Н
XB97	СН3-	OCH ₃	CN.	Н	н
XB98	СН3-	H₃CO 	CN	Н	. Н
XB99	СН3-	H ₃ CO-{_}-{	CN	н	Н
XB100	СН3-		CN	н	Н
XB101	СН3-	NO ₂	CN	н	н

No	R1	R2	R3	R4	R5
XB102	СН3-	O ₂ N	CN	Н	Н
XB103	СН3-	O ₂ N-{_}{	CN	н	Н
XB104	СН3-	CN →	CN	н	Н
XB105	СН3-	NC	CN	Н	H .
XB106	СН3-	NC-{_}	CN	Н	Н
XB107	СН3-	ara,	CN	Н	Н
XB108	СН3-		CN	н .	Н
XB109	СН3-	CCT	CN	Н .	Н
XB110	СН3-	Н	Н	СН3-	Н
XB111	снз-	Н	н	СН3СН2-	н
XB112	СН3-	Н	Н	∕ ∕\	н
XB113	снз-	н	Н	Y'	Н
XB114	снз-	Н	н	\\\ \\	Н
XB115	снз-	н	н	人工	Н
XB116	СН3-	Н .	н	*	Н
XB117	СН3-	н	н	^ ~\`\`.	Н
XB118	снз-	н	н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н
XB119	СН3-	Н	н	\\\\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н
XB120	СН3-	н	н	/ \/\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н
XB121	СН3-	н	Н	\\\\	Ĥ
XB122	СН3-	н	Н		Н

No	R1	R2	R3	R4	- Inc
XB123	СН3-	н	Н	OH OH	R5 H
XB124	CH3-	н	н	FOCH	Н
XB125	СН3-	н	Н		Н
XB126	СН3-	Н	н		بر H
XB127	СН3-	Н	н	◯ {	Н
XB128	снз-	Н	Н	Ş.	н
XB129	CH3-	н	Н	F;	н
XB130	снз-	Н	Н	F-{_}-{	Н
XB131	СН3-	Н	Н	CI	Н
XB132	снз-	н	Н	CI	Н
XB133	СН3-	Н	Н	C⊢{_}_	Н
XB134	СН3-	н	н	CI	Н
XB135	СН3-	н	Н	Br	н
XB136	снз-	Н	Н	Br	н
XB137	СН3-	н	Н	Br—{_}{	Н
XB138	снз-	н	н	CH ₃	Н
XB139	CH3-	Н	. Н	H ₃ C	Н
XB140	СН3-	Н	Н	H ₃ C-{}-{	Н
XB141	СН3-	Н	Н		н
XB142	СН3-	н	н	OH	Н
XB143	СН3-	Н	н	HO HO	н

No	R1	R2	R3	R4	R5
			- I	. (=)	17.0
XB144	CH3-	H	Н	HO-{_}-{	Н
XB145	СН3-	Н	н	OCH ₃	н
XB146	СН3-	Н	Н	H ₃ CO	н
XB147	СН3-	Н	н	H ₃ CO-{	H .
XB148	СН3-	Н	Н	C ₂ H ₅ O-{	н
XB149	СН3-	Н	н	NO ₂	н
XB150	СН3-	Н	н	O ₂ N	н
XB151	СН3-	Н	Н	O ₂ N-{	Н
XB152	СН3-	Н	Н	CN	Н
XB153	снз-	н	Н	NC	Н
XB154	СН3-	н	Н	NC-{}	Н
XB155	СН3-	н	Н		Н
XB156	СН3-	н	н	CCT	Н
XB157	СН3-	н	н	FO	Н
XB158	СН3-	Н	Н	FON	Н
XB159	СН3-	Н	н	FON	Н
XB160	СН3-	н	н .		Н
XB161	СН3-	Н	н	N S	H .
XB162	СН3-	н	н	CL.	Н
XB163	СН3-	н	н	O ^l ,	Н
XB164	CH3-	Н	н	FOR	н

No	R1	R2	R3	R4	T= :
XB165	СН3-	Н	Н	N ¹ , CH ₃	R5 H
XB166	СН3-	Н	Н	F N ² CH ₃	Н
XB167	снз-	Н	Н	H ₃ CO	Н
XB168	CH3-	Н	Н	F	Н

No	R1	R2	R3	104	
XB169	СН3-	Н	Н	R4	R5 OH
XB170	снз-	Н	н	F	ОН
XB171	СН3-	Н	н	F	он
XB172	СН3-	Н	Н	F-{_}-{	ОН
XB173	СН3-	н	Н	CI	ОН
XB174	снз-	Н	Н	CI	ОН
XB175	снз-	Н	Н	CI—{_}_{}	ОН
XB176	СН3-	н	н	Br	он
XB177	СН3-	Н	н	Br.	ОН
XB178	снз-	н	Н	Br—{_}{	он
XB179	СН3-	Н	Н	CH ₃	он
XB180	СН3-	н	Н	H ₃ C	он
XB181	СН3-	Н	Н	H ₃ C-{}-{	ОН
XB182	СН3-	н	н	C ₂ H ₅ {_}	он
XB183	СН3-	Н	Н	OH	ОН
XB184	СН3-	н	Н	HO	ОН
XB185	CH3-	н	Н	HO-{}{\}	ОН

XB186 CH3- H H H GCH3- OH XB187 CH3- H H H H3CO- OH XB188 CH3- H H H3CO- OH XB189 CH3- H H C2H5O- OH XB190 CH3- H H NO2- OH XB191 CH3- H H O2N- OH XB192 CH3- H H NC- OH XB193 CH3- H H NC- OH XB194 CH3- H H NC- OH XB195 CH3- H H NC- OH XB196 CH3- H H NC- OH XB197 CH3- H H NC- OH XB198 CH3- H H NC- CN XB200 CH3- H H NC- CN	No	R1	R2				
XB187	140	- 17.1	- rz		R3	R4	R5
XB188 CH3- H H H H ₃ CO- OH XB189 CH3- H H C ₂ H ₅ O- OH XB190 CH3- H H C ₂ H ₅ O- OH XB191 CH3- H H O ₂ N- OH XB192 CH3- H H O ₂ N- OH XB193 CH3- H H NC- OH XB194 CH3- H H NC- OH XB195 CH3- H H NC- OH XB196 CH3- H H NC- OH XB197 CH3- H H NC- OH XB198 CH3- H H NC- CN XB200 CH3- H H NC- CN XB201 CH3- H H NC- CN XB203 CH3- H H NC- CN XB204 CH3- H H NC- CN XB205 <td>XB186</td> <td>CH3-</td> <td>Н</td> <td></td> <td>Н</td> <td>OCH₃</td> <td>он</td>	XB186	CH3-	Н		Н	OCH ₃	он
XB189 CH3- H H C2H5O- OH XB190 CH3- H H NO2 OH OH XB191 CH3- H H O2N OH OH XB192 CH3- H H O2N OH OH XB193 CH3- H H NC OH OH XB194 CH3- H H NC OH OH XB195 CH3- H H OH OH XB196 CH3- H H OH OH XB197 CH3- H H OH OH XB199 CH3- H H OH CN XB200 CH3- H H OH CN XB201 CH3- H H OH CN XB203 CH3- H H OH OH XB204 CH3- H H OH OH XB205 CH3- H H OH OH OH XB206 CH3	XB187	снз-	Н		н	H₃CO <u></u>	он
XB190 CH3- H H H NO2	XB188	СН3-	Н		Н	H ₃ CO-{	ОН
XB191	XB189	СН3-	Н		Н	C ₂ H ₅ O-	он он
XB192	XB190	СН3-	н		Н	NO ₂	ОН
XB193 CH3- H H CN OH XB194 CH3- H H NC OH XB195 CH3- H H NC OH XB196 CH3- H H OH OH XB197 CH3- H H CN OH XB198 CH3- H H F CN XB200 CH3- H H F CN XB201 CH3- H H F CN XB202 CH3- H H CH CN XB203 CH3- H H CH CN XB204 CH3- H H CH CN XB205 CH3- H H Bf CN	XB191	СН3-	н		Η	O ₂ N	ОН
XB193 CH3- H H NC OH XB194 CH3- H H NC OH XB195 CH3- H H NC OH XB196 CH3- H H OH OH XB197 CH3- H H CN OH XB198 CH3- H H CN CN XB199 CH3- H H CN CN XB200 CH3- H H F CN XB201 CH3- H H CI CN XB202 CH3- H H CI CN XB203 CH3- H H CI CN XB204 CH3- H H CI CN XB205 CH3- H H BF CN	XB192	СН3-	н	ŀ	1	O ₂ N-{	он
XB194 CH3- H H H OH XB195 CH3- H H NC- OH XB196 CH3- H H OH XB197 CH3- H H OH XB198 CH3- H H CN XB199 CH3- H H CN XB200 CH3- H H CN XB201 CH3- H H CI CN XB202 CH3- H H CI CN XB203 CH3- H H CI CN XB204 CH3- H H CH CH CN XB205 CH3- H H CH CN CN	XB193	СН3-	Н	ŀ	1	CN	он
XB196 CH3- H H H OH XB197 CH3- H H CH OH XB198 CH3- H H CN CN XB199 CH3- H H CN CN XB200 CH3- H H CN CN XB201 CH3- H H CI CN XB202 CH3- H H CI CN XB203 CH3- H H CH CN XB204 CH3- H H CH CN XB205 CH3- H H CH CN	XB194	снз-	н .	F	ł	NC	ОН
XB197 CH3- H H H CH3- OH XB198 CH3- H H CN CN XB199 CH3- H H CN CN XB200 CH3- H H F CN XB201 CH3- H H CI CN XB202 CH3- H H CI CN XB203 CH3- H H CH CN XB204 CH3- H H CH CN XB205 CH3- H H Br CN	XB195	СН3-	н	H	1	NC-{_}	ОН
XB198 CH3- H H CN XB199 CH3- H H F CN XB200 CH3- H H F CN XB201 CH3- H H F CN XB202 CH3- H H CI CN XB203 CH3- H H CI CN XB204 CH3- H H CH CH XB205 CH3- H H Br CN	XB196	снз-	н	Н	l		он
XB198 CH3- H H H H CN XB199 CH3- H H H F CN XB200 CH3- H H F CN XB201 CH3- H H F CN XB202 CH3- H H CI CN XB203 CH3- H H CH CH XB204 CH3- H H CH CH XB205 CH3- H H Br CN	XB197	СН3-	н	Н			он
XB200 CH3- H H F CN XB201 CH3- H H F CN XB202 CH3- H H CI CN XB203 CH3- H H CI CN XB204 CH3- H H CI CN XB205 CH3- H H Br CN	XB198	СН3-	н	Н			1
XB201 CH3- H H F CN XB202 CH3- H H CI CN XB203 CH3- H H CI CN XB204 CH3- H H CI CN XB205 CH3- H H Br CN XB206 CH3- H H Br CN	XB199	СН3-	Н	Н			CN
XB202 CH3- H H CI CN XB203 CH3- H H CI CN XB204 CH3- H H CI CN XB204 CH3- H H CI CN XB205 CH3- H H Br CN	XB200	CH3-	Н	Н		F	CN
XB202 CH3- H H CN XB203 CH3- H H CI CN XB204 CH3- H H CH- CN XB205 CH3- H H Br CN XB206 CH3- H Br CN	XB201	снз-	н	Н		F-{\}_{\}	CN
XB203 CH3- H H CN XB204 CH3- H H CH- CN XB205 CH3- H H Br CN XB206 CH3- H Br CN	XB202	СН3-	н	н		CI	CN
XB205 CH3- H H Br CN XB206 CH3- H Br	XB203	снз-	Н	н			CN
XB206 CH3- H H GN	XB204	СН3-	н	Н		,	CN
XB2U6 1CH3- 1U 1₁ 1 \ 1 1 1	XB205	CH3-	н	Н		<u></u> ;	CN
	XB206	CH3-	н	н	E	Br. →	CN

1	1-:				
No	R1	R2	R3	R4	R5
XB207	СН3-	н	н	Br─∰	ĊN
XB208	снз-	Н	Н	CH₃	CN
XB209	СН3-	н	Н	H ₃ C	CN
XB210	СН3-	н	н	H ₃ C-{}-{	CN
XB211	снз-	н	н	C ₂ H ₅ —{_}{	CN
XB212	снз-	н	н	OH ○	CN
XB213	СН3-	Н	н	HO	CN
XB214	снз-	Н	Н	HO-{\bar{\bar{\bar{\bar{\bar{\bar{\bar	CN
XB215	СН3-	н	Н	OCH ₃	CN
XB216	снз-	н	н	H ₃ CO	CN
XB217	снз-	Н	Н	H ₃ CO-{	CN
XB218	снз-	Н	Н		CN
XB219	снз-	Н	Н	NO ₂	CN
XB220	СН3-	н	. Н	O ₂ N	CN
. XB221	СН3-	н .	н	O ₂ N-{	CN
XB222	снз-	н	Н	CN	CN
XB223	снз-	н	н .	NC	CN
XB224	снз-	н	н	NC-{}	CN
XB225	СН3-	Н	Н		CN
XB226	СН3-	Н	Н	OCT	CN
XB227	CH3-	Н	н		<u></u>

No	R1	R2	R3	R4	R5
XB228	CH3-	Н .	н	F 	0
XB229	CH3-	Н	н	F	0
XB230	снз-	Н	Н	F-(
XB231	CH3-	Н	H.	CI	· .
XB232	снз-	Н	н	CI	O
XB233	СН3-	н	н	C⊢ ()—{	0
XB234	СН3-	н	H	Br ∰-∤	O
XB235	СН3-	н .	н .	Br.	0=
XB236	СН3-	Н	н .	Br-{}-{	0
XB237	СН3-	Н	н	CH ₃) - -
XB238	СН3-	H	Н	H₃C —}) - -
XB239	СН3-	н	н	H₃C-⟨}-{	0=
XB240	СН3-	н	Н	C ₂ H ₅ -{}	0
XB241	СН3-	н	н	OH →) -
XB242	СН3-	н	Н	HO ———	0 = \
XB243	СН3-	Н	Н	HO-{\bigcirc}	O
XB244	СН3-	Н	Н	OCH₃	O
XB245	СН3-	Н	Н	H ₃ CO	, o
XB246	СН3-	Н	н	H₃CO-{_}	<u></u>
XB247	СН3-	Н	Н	C ₂ H ₅ O-{{}}	
XB248	снз-	н	Н	NO ₂	\

No	R1	R2	R3	R4	R5
XB249	CH3-	Н	Н	O ₂ N	0
XB250	СН3-	н	Н	O ₂ N-{}	<u></u>
XB251	СН3-	Н	Н	CN	0
XB252	СН3-	Н	Н	NC 	0
XB253	СН3-	Н	H	NC-{})
XB254	СН3-	н	н		0
XB255	СН3-	н	н	OCT'	O

No.	STRUCTURE
XB256	
XB257	N N N O CH ₃
	N N N O CH ₃
XB258	CIH N N O CH ₃
XB259	N N N O CH ₃

XB260	
	CIH N N N O CH ₃
XB261	N N N N N N N N N N N N N N N N N N N
XB262	H ₃ C N N N O CH ₃
XB263	CIH CIH NN NN NN O CH3

XB264	
7.D207	H ₃ C N
VP206	CH ₃
XB265	H ₃ C N N N O CH ₃
XB266	CIH CIH CIH N N N N O CH3
XB267	Br CH ₃
XB268	Br CH ₃

XB269	
	N CH ₃
XB270	N N CH ₃
XB271	F CH ₃
XB272	F F N N O CH ₃

XB273	
	CH ₃ N N N CH ₃ CH ₃
XB274	O CH ₃ N N CH ₃
XB275	CH ₃ N N O CH ₃
XB276	CH ₃ N N O CH ₃

VD077	
XB277	O-CH ₃ N N CH ₃ CH ₃
XB278	CH ₃ CH ₃ CH ₃
XB279	CH ₃ CH ₃ CH ₃
XB280	H ₃ C N N N N O CH ₃
XB281	Br N N O CH ₃

XB282	
	O CH ₃
XB283	HO N N N N O CH ₃
XB284	CH ₃ N N N CH ₃ C CH ₃
XB285	N N N O CH ₃
KB286 -	N N N O CH ₃

XB2 <u>8</u> 7	H ₃ C N N N O CH ₃
XB288	CH ₃ H ₃ C N N N CH ₃
XB289	
XB290	H ₃ C-NOCH ₃

XB291	
	HO CH ₃
XB292 -	N N N O CH ₃
XB293	CH ₃ CH ₃
XB294	H ₃ C ₀
XB295	

VECCO	
XB296	CH ₃ CH ₃ CH ₃
XB297	H ₃ C N CH ₃
XB298	H ₃ C
XB299	N N O CH ₃

XB300	
	N N N O CH ₃
ЖВ301	N N N O CH ₃
XB302	CH ₃ CH ₃ CH ₃ CH ₃

	Table-3				
		R ³ R ² N N O .			
	No.	R1		 -	
	YA0001	CH3-	R2 H	R3	R4
	YA0002	CH3-	Н .	H	CH3-
	YA0003	CH3-	Н	Н	CH3CH2-
	YA0004	СН3-	Н	Н	7
	YA0005	CH3-	Н	Н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
	YA0006	СН3-	, н	н	Į,
	YA0007	СН3-	Н	Н	7
	YA0008	СН3-	Н	Н	7
	YA0009	СН3-	н	н	Q
	YA0010	.СН3-	Н	н	
	YA0011	СН3-	н	Н	
	YA0012	СН3-	Н	Н	
	YA0013	СН3-	Н	н	\Diamond
	YA0014	CH3-	. н	Н	\bigcirc +
L	YA0015	CH3-	н	Н	<u></u>
L	YA0016	СН3-	Н	Н	\bigcirc -i
	YA0017	CH3-	Н	Н	
	YA0018	CH3-	Н	Н	F-{
	YA0019	CH3-	н	Н	F
_	YA0020	CH3-	Н	н	F-()
_	YA0021	СН3-	н	н	CI

A1 -				
No.	R1	R2	R3	R4
YA0022	. CH3-	Н	н	CI
YA0023	CH3-	Н	Н	C⊢
YA0024	СН3-	Н	Н	Br
YA0025	СН3-	Н	н	Br.
YA0026	- СН3-	Н	н	Br—{}
YA0027	СН3-	Н	н	\
YA0028	СН3-	Н	н	_
YA0029	СН3-	н .	н	
YA0030	СН3-	Н	н	CH₃
YA0031	СН3-	Н	Н	H ₃ C
YA0032	СН3~	Н	Н	H ₃ C-{}
YA0033	СН3-	н	н	C ₂ H ₅ —{
YA0034	СН3-	Н	н	n-C ₃ H ₇ {_}
YA0035	СН3-	Н	н	n-C ₄ H ₉ —{{}
YA0036	СН3-	н	н .	→ OH
YA0037	CH3-	Н	Н	HO
YA0038	CH3-	Н	. н	HO-{_}
YA0039	СН3-	Н	н	OCH ₃
YA0040	СН3-	н	н	H ₃ CO
YA0041	СН3-	Н	н	H ₃ CO-{}-{
YA0042	СН3-	Н	н	C ₂ H ₅ O-{{}}
	-			

NI.	D4	T		
No.	R1	R2	R3	R4
YA0043	CH3-	Н	Н	n-C ₃ H ₇ O-
YA0044	CH3-	Н	н	n-C ₄ H ₉ O-{}
YA0045	СН3-	Н	Н	NO ₂
YA0046	СН3-	Н	Н	O ₂ N
YA0047	CH3-	Н	Н	O ₂ N-{
YA0048	снз-	н	н	CN CN
YA0049	CH3-	н	Н	NC
YA0050	СН3-	н .	н	NC-{_}_{}.
YA0051	CH3-	Н	н	CF ₃
YA0052	CH3-	н	Н	F ₃ C{
YA0053	СН3-	Н	·н	F ₃ C-{}
YA0054	СН3-	Н	Н	СООН
YA0055	СН3-	Н	н	HOOC
YA0056	СН3~	Н .	н	H00C-{}
YA0057	СН3-	н.	н	CO₂Me
YA0058	CH3-	Н	н	MeO ₂ C
YA0059	СН3-	Н	Н	MeO ₂ C-{}
YA0060	СН3-	Н	н	CO ₂ Et
YA0061	СН3-	Н	Н	EtO ₂ C
YA0062	СН3-	Н	н	EtO ₂ C-⟨
YA0063	СН3-	Н	н	SMe

No.	R1	R2	R3	R4
YA0064	СН3-	Н	Н	MeS
YA0065	CH3-	н	Н	MeS-{_}{
YA0066	СН3-	Н	н	SO₂Me
YA0067	СН3-	н	н	MeO ₂ S
YA0068	CH3-	н	Н	MeO ₂ S-{}
YA0069	CH3-	Н	н	NH ₂
YA0070	CH3-	Н	н	H ₂ N
YA0071	CH3-	Н	H	H₂N-⟨¯}
YA0072	CH3-	н	Н	NMe₂
YA0073	CH3-	Н	Н	Me ₂ N
YA0074	CH3-	н	Н	Me₂N-⟨¯¯⟩
YA0075	CH3-	н	Н	
YA0076	CH3-	. н	Н	CCC' ¹
YA0077	CH3-	Н	Н	
YA0078	CH3-	н	Н	0 \$\int_{\sqrt{2}}^{\text{a}}
YA0079	CH3-	н	Н	
YA0080	СН3-	н	н	

No.	R1	R2	R3	R4
YA0081	CH3-	Н	н	F
YA0082	CH3-	н	Н	E C
YA0083	CH3-	Н	Н	GI O
YA0084	СН3-	н	Н	CI

NI.				•
No.	R1	R2	R3	R4
YA0085	СН3-	Н	н	CI
YA0086	СН3-	н	Н	Br Q
YA0087	СН3-	н	н	Br
YA0088	СН3-	н	н	Br
YA0089	СН3-	. н	Н	CHO
YA0090	СН3-	Н	Н	H₃C C
YA0091	СН3-	н	Н	H ₃ C
YA0092	CH3-	н	н	CH ₃ O O
YA0093	CH3-	н	н	H₃CO C
YA0094	СН3-	Н	Н	H ₃ CO
YA0095	СН3-	Н	Н	NO.O
YA0096	CH3-	Н	Н	O ₂ N
YA0097	СН3-	Н	н	O ₂ N OH O
YA0098	СН3-	Н	Н	O₂N [*]
YA0099	СН3-	Н	Н	но
YA0100	СН3-	Н	н	но
YA0101	CH3-	н	н	NHO

No.	R1	R2	R3	R4
YA0102	CH3-	н	н	H ₂ N
YA0103	CH3-	Н	Н	H ₂ N
YA0104	CH3-	Н	Н	CNO
YA0105	СН3-	Н	Н	NC O

No.	R1	Do		
		- R2	R3	R4
YA0106	6 CH3-	Н	Н	NC O
YA0107	СН3-	н	Н	Gi,
YA0108	СН3-	Н	Н	OO',
YA0109	СН3-	Н	н	2,
YA0110	СН3-	Н	Н	٧,
YA0111	CH3-	Н	н	~ ,
YA0112	СН3-	Н	н	\rightarrow \right
YA0113	СН3-	Н	Н	A.P.
YA0114	СН3-	н	Н	~ l,
YA0115	СН3-	Н	н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
YA0116	СН3-	н	Н	~~~
YA0117	СН3-	Н	Н	~~~°,
YA0118	CH3-	Н	Н	~~~\
/A0119	СН3-	Н	н	△ , ,
⁄A0120	CH3-	Н	Н	
'A0121	CH3-	н	н	ريائي
A0122	СН3-	н	Н	ر ا
	YA0107 YA0108 YA0109 YA0110 YA0111 YA0112 YA0113 YA0114 YA0115 YA0116 YA0117 YA0118 'A0120 'A0120 'A0121	YA0106 CH3- YA0107 CH3- YA0108 CH3- YA0109 CH3- YA0110 CH3- YA0111 CH3- YA0112 CH3- YA0113 CH3- YA0114 CH3- YA0115 CH3- YA0116 CH3- YA0117 CH3- YA0118 CH3- YA0120 CH3- YA0121 CH3-	YA0106 CH3- H YA0107 CH3- H YA0108 CH3- H YA0109 CH3- H YA0110 CH3- H YA0111 CH3- H YA0112 CH3- H YA0113 CH3- H YA0114 CH3- H YA0115 CH3- H YA0116 CH3- H YA0117 CH3- H YA0118 CH3- H YA0120 CH3- H YA0121 CH3- H	YA0106 CH3- H H YA0107 CH3- H H YA0108 CH3- H H YA0109 CH3- H H YA0110 CH3- H H YA0111 CH3- H H YA0112 CH3- H H YA0113 CH3- H H YA0114 CH3- H H YA0115 CH3- H H YA0116 CH3- H H YA0117 CH3- H H YA0118 CH3- H H YA0119 CH3- H H YA0120 CH3- H H

No.	R1	R2	R3	R4
YA0123	СН3-	O H₃CO ≻	Н	н
YA0124	СН3-	O H₃CO >	н	CH3-
YA0125	CH3-	H³CO,≻	н	CH3CH2-
YA0126	СН3-	H ₃ CO /	Н	∼ \\\ .

No.	R1	L R2	R3	
YA0127	СН3-	0 H₃CO >-	H	R4
YA0128	CH3-	H ₃ CO >	н	~~``
YA0129	CH3-	H ₃ CO >	н	J.
YA0130	СН3-	H ₃ CO >	н	~
YA0131	CH3-	H ₃ CO >	н	7
YA0132	CH3-	O H₃CO [™] ≻	Н	Qu
YA0133	СН3-	H³CO, ^λ	н	
YA0134	СН3-	H ₃ CO ^N ₂ ,	н	Qui
YA0135	СН3-	H³CO_}\	н	\triangleright
YA0136	CH3-	H³CO, \lambda	Н	\Diamond - \Box
YA0137	CH3-	O H₃CO ≻	н	$\bigcirc \dashv$
YA0138	CH3-	O H³CO, ≻	Н	\bigcirc \dashv
YA0139	СН3-	O H₃CO ∕	н	
YA0140	CH3	H³CO, ≻	н	○
YA0141	СН3-	O H₃CO ≻	н	· F
YA0142	CH3-	H³CO, ≻	Н	F;
YA0143	СН3-	H³CO >	Н .	F-(
YA0144	СН3-	H³CO, ≻	Н	CI ◯>–∤
YA0145	СН3-	H³CO_}^	н	CI
YA0146	CH3-	H³CO, ≻	Н	C├
YA0147	СН3-	H³CO ₁ ≻	н	Br →

	No.	R1	R2		
i	YA014		0	R:	Br
	YA014	9 снз-	. H₃CO →	н	Br-{_}{
	YA0150	ОН3-	O H₃CO →	Н	CH₃
	YA0151	СН3-	H ₃ CO >	н	H ₃ C
	YA0152	CH3-	O H₃CO →	н	H ₃ C-{}-{
	YA0153	CH3-	H₃CO Y	Н	C ₂ H ₅ —{
	YA0154	CH3-	H ₃ CO Y	н	n-C ₃ H ₇ -{}
	YA0155	СН3-	H ₃ CO /	н	n-C ₄ H ₉ {
	YA0156	CH3-	H ₃ CO y	н	OCH ₃
	YA0157	CH3-	H ₃ CO y	н	H ₃ CO
	YA0158	СН3~	O H₃CO √y	н	H ₃ CO-{}
	YA0159	СН3-	H ₃ CO y	Н	C ₂ H ₅ O-{{}
	YA0160	снз-	H₃CO >	Н	n-C ₃ H ₇ O-{{}
	YA0161	CH3-	H3CO, >-	н	n-C ₄ H ₉ O-
L	YA0162	СН3-	H ₃ CO	Н	NO ₂
Ľ	YA0163	СН3-	O H₃CO ≻	н	O ₂ N
L	/A0164	СН3-	H ₃ CO y	Н	O ₂ N-{}
\	/A0165	CH3-	H ₃ CO >	н	CN
Y	'A0166	СН3-	H³CO, ≻	Н	NC
Y	A0167	СН3-	O H³CO ≻	Н	NC-{}-{
Y.	A0168	СН3-	H³CO_^>	Н	NMe ₂

No.	R1	R2	R3	
YA0169		H₃CO ≻	Н	Me ₂ N
YA0170	СН3-	O H₃CO ≻	Н	Me ₂ N-{
YA0171	СН3-	H ₃ CO >	н	Q
YA0172	СН3-	H³CO, ≻	Н	CCC'
YA0173	СН3-	H ₃ CO >	Н	C) Ly
YA0174	СН3-	O H₃CO →	Н	Qi,
YA0175	CH3-	O H₃CO →	Н	OD ¹ ,
YA0176	CH3-	O H₃CO ≻	н	<u>ک</u> ہ
YA0177	CH3-	H³CO, ≻	н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
YA0178	СН3-	O C₂H₅O →	н	н
YA0179	CH3-	O C₂H₅O [™] ≻	н	CH3
YA0180	CH3-	O C₂H₅O [™] ≻	н	CH3CH2~
YA0181	CH3-	O C₂H₅O ✓	н	^ \
YA0182	СН3-	C ₂ H ₅ O →	н	Y'\
YA0183	СН3-	O C₂H₅O →	н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
YA0184	CH3-	O C₂H₅O '>′	н	L

No.	R1	R2 ·	R3	R4
YA0185	CH3-	O C₂H₅O →	Н	~~`
YA0186	CH3-	O C₂H₅O →	Н	丫
YA0187	снз-	O C ₂ H ₅ O >	Н	
YA0188	СН3-	O C ₂ H ₅ O >	Н	
YA0189	СН3	C ₂ H ₅ O y	Н	

	Vo.	R1	R2			•
YA	0190	CH3-	0	_	R3	R4
ļ			C ₂ H ₅ O y		Н	
YA	0191	CH3-	C ₂ H ₅ O		Н	$\Diamond \dashv$
YA)192	CH3-			Н	
YAC	193	CH3-	O C ₂ H ₅ O - >-		Н	
YAO	194	СН3-	C ₂ H ₅ O ×		Н	
YA0	195	СН3-	C ₂ H ₅ O →	1	н	
YA0	196	СН3-	C ₂ H ₅ O	+	Н	
YA0	197	CH3-	C ₂ H ₅ O >		н	
YA01	98	CH3-	C ₂ H ₅ O ¹ >		Н	F-()-i
YA01	99	CH3-	O C₂H₅O ✓ ≻		н	CI
YA02	00	CH3-	C ₂ H ₅ O >		Н	Ci
YA02	01	CH3-	C ₂ H ₅ O >		Н	CI-{}-{
YA020	02	CH3-	O C ₂ H ₅ O ,		Н	Br
YA020)3	CH3-	C ₂ H ₅ O y		Н	Br.
YA020	14	CH3-	O C ₂ H ₅ O ->-		Н	Br—{
YA020	5	CH3-	C ₂ H ₅ O y	1	4	CH ₃
YA020	6	CH3-	O C₂H₅O ∕	, F	1	H ₃ C
YA020	,	СН3-	O C₂H₅O →	ŀ	1	H ₃ C-{}-{
YA0208	3	СН3-	O C ₂ H ₅ O / >	Н	,	C ₂ H ₅ —{}
YA0209		СН3-	O C ₂ H ₅ O	Н	,	n-C ₃ H ₇ {}
YA0210		CH3-	O C₂H₅O →	н	r	1-C ₄ H ₉ -

No.	R1	R2	R3_	R4
			1 10	
YA0211	CH3-	C ₂ H ₅ O →	н	OCH₃
YA0212	СН3-	O C₂H₅O [™] ≻	н	H₃CQ —∤
YA0213	СН3-	O C₂H₅O ,	н	H₃CO- ⟨_ }{
YA0214	СН3-	O C₂H₅O →	Н	C ₂ H ₅ O-{}
YA0215	CH3-	O C₂H₅O [™] ≻	Н	n-C ₃ H ₇ O-{}
YA0216	CH3-	O C₂H₅O	Н	n-C ₄ H ₉ O-{}-{
YA0217	CH3-	O C₂H₅O ≻	Н	NO ₂
YA0218	CH3~	O C₂H₅O ≻	н	O ₂ N
YA0219	CH3-	O C₂H₅O →	Н	O ₂ N-{
YA0220	CH3~	O C₂H₅O →	Н	CN
YA0221	СН3-	O C₂H₅O →	Н	NG. →
YA0222	СН3~	O C ₂ H ₅ O	Н	NC-{}
YA0223	СН3-	O C₂H₅O →	н	NMe ₂
YA0224	СН3-	O C₂H₅O →	Н	Me ₂ N
YA0225	СН3-	O C₂H₅O ∵∕	Н	Me ₂ N-{
YA0226	CH3-	O C₂H₅O [^] ≻	н	

No.	R1	R2	R3	R4
YA0227	CH3-	O C₂H₅O →	Н	O)'
YA0228	CH3-	O C₂H₅O ≻	Н	O P
YA0229	СН3-	O C₂H₅O →	н	Qi,
YA0230	CH3~	O C₂H₅O →	Н	
YA0231	СН3-	O C ₂ H ₅ O 7	Н	<u>ک</u> ہ

Г	No.	R1	7		
ľ	YA0232	CH3-	R2 O	R3	R4
-	17.0202	UH3-	C ₂ H ₅ O	Н	
	YA0233	СН3-	СН3-	н	н
	YA0234	CH3-	CH3CH2-	н	Н
	YA0235	СН3-	△ \\	Н	Н
	YA0236	СН3-	7	Н	Н
	YA0237	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н
L	YA0238	CH3-	Li	н	Н
	YA0239	CH3-	7	Н	н
L	YA0240	СН3-	丫	Н	Н
Ļ	YA0241	СН3-	^	Н	Н
L	/A0242	СН3-	Y~~\	н	Н
\	/A0243	СН3-	X	н	Н
Ý	′A0244	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	н
Υ	A0245	СН3-	\\\\	Н	Н
Y	A0246	CH3~		н	Н
Y.	A0247	CH3-	^ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н
Υ.	A0248	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	. н	Н
Y,	A0249	CH3-	\\\\\	Н	Н
Υ/	A0250	СН3-		н	Н
Υ/	A0251	СН3-		н	Н
YA	N0252	снз-)	н	Н

No.	R1	7		
		R2	R3	R4
YA025	3 CH3-		Н	н
YA025	4 СН3-		н	Н
YA025	5 СН3-	→	н	Н
YA025	6 CH3-	\bigcirc	н	н
YA0257	7 СН3-	\bigcirc -1	Н	н
YA0258	СН3-		н	н
YA0259	СН3-	△ -1	н	Н
YA0260	CH3-		Н	Н
YA0261	CH3-	_	Н	н
YA0262	СН3-	F.	Н	н
YA0263	СН3-	F	Н	Н
YA0264	СН3-	F-(Н	н
YA0265	СН3-	F-{_}-	н	, H
YA0266	СН3-	F———	Н	Н
YA0267	СН3-	CI	Н	H
YA0268	СН3-	CI	н	Н
YA0269	СН3-	c -{_}	Н	Н
YA0270	СН3-	c⊢ <u>(</u> _>-	н	Н
YA0271	СН3-	C⊢ (_)⊪{	н	Н
YA0272	СН3-	Br	н	Н
YA0273	СН3-	Br.	н	н

No. R1 R2 R3 YA0274 CH3- Br— H	H
1A02/4 CH3 H	Н
	
YA0275 CH3- Br	н
YA0276 CH3- Br-√	Н
YA0277 CH3-	Н
YA0278 CH3-	н
YA0279 CH3- H	H _.
YA0280 CH3- CH ₃ H	Н
YA0281 CH3- H3C H	Н
YA0282 CH3- H ₃ C-\(\bigcirc\)-{	Н
YA0283 CH3- C ₂ H ₅ {	Н
YA0284 CH3- n-C3H7	Н
YA0285 CH3- n-C ₄ H ₉ {} H	Н
YA0286 CH3- OH H	н
YA0287 CH3- HO H	Н
YA0288 CH3- HO- H	Н
YA0289 CH3- OCH ₃ H	Н
YA0290 CH3- H3CO H	Н
YA0291 CH3- H ₃ CO-{ H	Н
YA0292 CH3- H ₃ CO- H	н
YA0293 CH3− H ₃ CO- H	Н
YA0294 CH3- OC ₂ H ₅ H	н

N.				
No.	R1	C ₂ H ₅ Q	R3	R4
YA029	05 CH3-	-	н	н
YA029	6 CH3-	. C ₂ H ₅ O-{}	н	- н
YA029	7 СН3-	n-C ₃ H ₇ O-	н	н
YA029	8 CH3-		н	н
YA029	9 СН3-	[<>—{	Н	н
YA0300	О СН3-	O ₂ N	н	Н
YA0301	CH3-	O ₂ N-{_}	н	Н
YA0302	CH3-	CN △	н	Н
YA0303	CH3-	NC	Н	н
YA0304	CH3-	NC-{_}	Н	Н
YA0305	СН3~	CF ₃	н	Н
YA0306	СН3-	F ₃ C	Н	Н
YA0307	СН3-	F ₃ C-{	Н.	Н
YA0308	СН3-	COOH	Н	н
YA0309	СН3-	HOOC	н	H
YA0310	CH3-	HOOC-(Н	Н
YA0311	CH3-	CO ₂ Me	Н	н
YA0312	СН3-	MeO ₂ C	н	Н
YA0313	снз-	MeO ₂ C-{}	н	Н
YA0314	СН3-	CO₂Et	н	н
YA0315	CH3-	EtO ₂ C	Н	Н

YA0316 CH3- EfO₂C H H H YA0317 CH3- SMe H H H YA0318 CH3- MeS H H H YA0319 CH3- MeS H H H YA0320 CH3- MeO₂S H H H YA0321 CH3- MeO₂S H H H YA0322 CH3- MeO₂S H H H YA0323 CH3- NH2 H H H YA0324 CH3- NMeO₂S H H H YA0325 CH3- NMe₂N H H H YA0326 CH3- Me₂N H H H YA0328 CH3- Me₂N H H H YA0330 CH3- N H H H YA0331 CH3- N H H H YA0332 CH	No.	R1	R2	R3	D4
YA0317 CH3- SMe H H YA0318 CH3- MeS H H H YA0319 CH3- MeS H H H YA0320 CH3- MeO₂S H H H YA0321 CH3- MeO₂S H H H YA0322 CH3- MeO₂S H H H YA0323 CH3- NH2 H H H YA0324 CH3- H₂N H H H YA0325 CH3- H₂N H H H YA0326 CH3- Me₂N H H H YA0327 CH3- Me₂N H H H YA0328 CH3- N H H H YA0330 CH3- N H H H YA0331 CH3- N H H H H YA0333					R4
YA0318 CH3- MeS- H H H YA0319 CH3- MeS- H H H YA0320 CH3- MeO ₂ S- H H H YA0321 CH3- MeO ₂ S- H H H YA0322 CH3- MeO ₂ S- H H H YA0323 CH3- MeO ₂ S- H H H YA0324 CH3- H2N- H H H YA0325 CH3- H2N- H H H YA0326 CH3- Me ₂ N- H H H YA0327 CH3- Me ₂ N- H H H YA0328 CH3- Me ₂ N- H H H YA0330 CH3- N- H H H YA0331 CH3- N- H H H YA0333 CH3- N- H H H	YA0317	СН3-	SMe	+	
YA0320 CH3- SO₂Me H H YA0321 CH3- MeO₂S H H YA0322 CH3- MeO₂S H H YA0323 CH3- MeO₂S H H YA0324 CH3- H₂N H H YA0325 CH3- H₂N H H YA0326 CH3- Me₂N H H YA0327 CH3- Me₂N H H YA0328 CH3- N H H YA0329 CH3- N H H H YA0331 CH3- N H H H YA0332 CH3- N H H H YA0333 CH3- N H H H YA0335 CH3- N H H H YA0335 CH3- N H H H	YA0318	СН3-	MeS	н	Н
YA0320 CH3- MeO₂S H H YA0321 CH3- MeO₂S H H YA0322 CH3- MeO₂S H H YA0323 CH3- MeO₂S H H YA0324 CH3- H₂N H H YA0325 CH3- H₂N H H YA0326 CH3- Me₂N H H YA0327 CH3- Me₂N H H YA0328 CH3- Me₂N H H YA0330 CH3- N H H YA0331 CH3- N H H YA0332 CH3- N H H YA0333 CH3- N H H YA0334 CH3- N H H YA0335 CH3- N H H	YA0319	СН3-	,	Н	Н
YA0321 CH3- MeO₂S- H H H YA0322 CH3- MeO₂S- H H H YA0323 CH3- NH₂ H H H YA0324 CH3- H₂N H H H YA0325 CH3- NMe₂N H H H YA0326 CH3- Me₂N H H H YA0327 CH3- Me₂N H H H YA0328 CH3- N H H H YA0330 CH3- N H H H YA0331 CH3- N H H H YA0333 CH3- N H H H YA0334 CH3- N H H H YA0335 CH3- N H H H	YA0320	СН3-		Н	Н
YA0323 CH3- NH2	YA0321	CH3-	MeO ₂ S	Н	Н
YA0323 CH3- H H H YA0324 CH3- H2N- H H H YA0325 CH3- H2N- H H H YA0326 CH3- Me2N- H H H YA0327 CH3- Me2N- H H H YA0328 CH3- Me2N- H H H YA0329 CH3- N- H H H YA0331 CH3- N- H H H YA0332 CH3- N- H H H YA0333 CH3- N- H H H YA0334 CH3- N- H H H YA0335 CH3- N- H H H	YA0322	снз-		Н	Н
YA0324 CH3- H H H YA0325 CH3- H2N- H H H YA0326 CH3- Me2N- H H H YA0327 CH3- Me2N- H H H YA0328 CH3- Me2N- H H H YA0329 CH3- N- H H H YA0330 CH3- N- H H H YA0331 CH3- N- H H H YA0332 CH3- N- H H H YA0333 CH3- N- H H H YA0335 CH3- N- H H H YA0335 CH3- N- H H H	YA0323	СН3-		Н	Н
YA0326 CH3- NMe₂ N H H YA0327 CH3- Me₂N H H YA0328 CH3- Me₂N H H YA0329 CH3- N H H YA0330 CH3- N H H YA0331 CH3- N H H YA0332 CH3- N H H YA0333 CH3- N H H YA0334 CH3- N H H YA0335 CH3- N H H	YA0324	CH3-	H ₂ N	н	н
YA0326 CH3- H H H YA0327 CH3- Me₂N H H YA0328 CH3- Me₂N H H YA0329 CH3- N- H H YA0330 CH3- N- H H YA0331 CH3- N- H H YA0332 CH3- N- H H YA0333 CH3- N- H H YA0334 CH3- N- H H YA0335 CH3- N- H H	YA0325	CH3-		Н	Н
YA0327 CH3- H H H YA0328 CH3- Me2N- H H YA0329 CH3- N- H H YA0330 CH3- N- H H YA0331 CH3- N- H H YA0332 CH3- N- H H YA0333 CH3- N- H H YA0335 CH3- N- H H	YA0326	СН3-		Н	Н
YA0329 CH3- N- H H YA0330 CH3- N- H H YA0331 CH3- N- H H YA0332 CH3- N- H H YA0333 CH3- N- H H YA0334 CH3- N- H H YA0335 CH3- N- H H	YA0327	СН3-	Me ₂ N	н	Н .
YA0330 CH3- N- H H YA0331 CH3- N- H H YA0332 CH3- N- H H YA0333 CH3- N- H H YA0334 CH3- N- H H YA0335 CH3- N- H H	YA0328	CH3-	Me ₂ N—	Н	Н
YA0330 CH3- IV	YA0329	СН3-	Cn-C	Н	н
YA0332 CH3- N- H H YA0333 CH3- N- H H YA0334 CH3- N- H H YA0335 CH3- N- H H YA0335 CH3- N- H H YA0335 CH3- N- H H	YA0330	CH3-		н	
YA0333 CH3- N-	YA0331	CH3-		н	Н
YA0334 CH3- N-C→ H H YA0335 CH3- N-C→ H H YA0336 CH3- N-C→ H	YA0332	CH3-			Н
YA0335 CH3- ON- H H	YA0333	CH3-	(n-()	Н	Н
YAD236 CH3- H H	YA0334	CH3-	\n-\(_\)-1	Н	н
YA0336 CH3- ON- H H	YA0335	CH3-	O_N-{_>	н	н
	YA0336	СН3-		Н	Н

No.	R1	R2	R3	R4
YA0337	СН3-	o_n-{_};	н	н
YA0338	CH3-	H₃CN_N-	н	н
YA0339	CH3-	H ₃ CN\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	н
YA0340	CH3-	H3CN_N-{}	Н	н
YA0341	СН3-	H ₃ C_CH ₃	Н	Н
YA0342	CH3-	CH₃ H₃C-⟨\$}—{	н	н
YA0343	СН3-	CH₃ CH₃ H₃C	Н	н
YA0344	СН3-	CH₃ CH₃ CH₃	н	н
YA0345	СН3-	H ₃ C H ₃ C-{}	н	Н
YA0346	СН3-	H ₃ C H ₃ C	н	Н
YA0347	СН3-	FF	Н	н
YA0348	CH3-	F——→	н	н
YA0349	CH3-	Ş F	н	н
YA0350	CH3-	F	н	н
YA0351	СН3-	F—F	н	н
YA0352	СН3-	F.	н	н

No.	R1	R2	R3	R4
YA0353	CH3-	CI_CI	н	н
YA0354	СН3-	CI—⟨□}	Н	н
YA0355	CH3-	CI CI	н	н
YA0356	СН3-	ο ↓ ο	Н	н
YA0357	CH3-	CI CI	Н	Н

[No.	R1	R2	R3	54
	YA0358	3 CH3-	CI	Н	R4 H
	YA0359	CH3-	H₃CO_OCH₃	Н	н
	YA0360	СН3-	H₃CO-⟨SH₃	Н	Н
	YA0361	СН3-	OCH ₃	н	н
	YA0362	СН3-	OCH ₃	Н	Н
	YA0363	СН3-	H ₃ CO—{	Н	н
	YA0364	СН3-	H ₃ CO	Н	Н
	YA0365	СН3-	F_OCH ₃	Н	Н
	YA0366	СН3-	OCH ₃	Н	Н
\\	YA0367	СН3-	OCH ₃	н	н
,	/A0368	СН3-	OCH ₃	Н	н
,	⁄A0369	СН3-	OCH ₃	Н	н.
Y	'A0370	CH3-	OCH₃ F	н	н
Υ	A0371	CH3-	H₃CO F—⟨□}—;	Н	Н
Υ.	A0372	СН3-	H ₃ CO	Н	Н
Υ/	40373	CH3-	H₃CO_F	Н	н

[.]162

No.	R1	R2	R3	R4
YA0374	СН3-	H₃CO-⟨S	Н	Н
YA0375	СН3-	H ₃ CO	н	н
YA0376	СН3-	F_ H₃CO-⟨¯¯ <mark>)</mark> —;	Н	Н
YA0377	СН3-	CI_OCH ₃	Н	н
YA0378	СН3-	OCH₃ CI—	н	Н

No.	R1	Do		
i iii	1	R2 OCH ₃	R3	R4
YA0379	СН3-	CI CI	н	н
YA0380	СН3-	OCH₃ CI	н	Н
YA0381	СН3-	H ₃ CQ	Н	Н
YA0382	CH3-	H ₃ CQ	Н	н
YA0383	CH3-	H₃CO_CI	H.	н
YA0384	СН3-	H₃CO-{\$\frac{CI}{CI	н	н
YA0385	CH3-	,CI → H₃CO	н	H.
YA0386	CH3-	CI	н	н
YA0387	CH3-	F_CH ₃	н	н
YA0388	СН3-	CH ₃ F─{}	Н	Н
YA0389	CH3-	CH ₃	н	Н
YA0390	CH3-	CH ₃	Н	н
YA0391	СН3-	H ₃ C F—(;	Н	н
YA0392	СН3-	H ₃ C F	Н	н
YA0393	СН3-	H₃C_F	Н	н
YA0394	CH3-	H₃C-⟨¯¯ <mark></mark> F	Н.	Н

No.	R1	R2	R3	R4
YA0395	СН3-	H₃C F	Н	н
YA0396	СН3-	F, H₃C-√}	н	н
YA0397	СН3-	Br_OCH₃	Н	H _.
YA0398	СН3-	OCH₃ Br—	Н	н
YA0399	СН3-	OCH₃ ⇒⇒⇒ Br	Н	н

) No	P1	T	T	
No.	R1	OCH ₃	R3	R4
YA0400	снз-	Br	н	н
YA0401	CH3-	H ₃ CO Br—	н	Н
YA0402	CH3-	H ₃ CQ	н	Н
YA0403	CH3-	H ₃ CO_Br	н	н
YA0404	СН3-	H₃CO-⟨\$\rightarrow\$	Н	н
YA0405	CH3-	Br H₃CO	н	н
YA0406	СН3-	Br H₃CO—	н	н
YA0407	СН3-	H ₃ CO_>	н	н
YA0408	CH3-	OCH ₃	н	н
YA0409	CH3-	CN-⟨_}-OCH ₃	Н	н
YA0410	CH3-	H ₃ CO >	н	н
YA0411	CH3-	H ₃ CO	н	н
YA0412	CH3-	OCH₃	н	Н
YA0413	CH3-	F-(\$\frac{F}{4}\)	Н	н
YA0414	CH3-	OCH ₃ F—{} F	н	Н

No.	R1	R2	R3	R4
YA0415	CH3-	H₃CO-{∑F F	Н	Н
YA0416	СН3-	OCH ₃ F—{_}} OCH ₃	Н	н
YA0417	СН3-	OCH ₃ H ₃ CO-⟨} OCH ₃	Н	н
YA0418	СН3-	CI CI	Н	н
YA0419	СН3-	OCH ₃ CI— CI	Н	Н
YA0420	СН3-	CI H₃CO-⟨∑→; CI	н	Н

No.	R1	R2	l Do	
YA0421	CH3-	OCH ₃ CI—CD-1	R3 H	R4 H
YA0422	СН3-	OCH ₃ H ₃ CO-{_}-{ OCH ₃	Н -	н
YA0423	CH3-	OCH ₃	Н	н
YA0424	СН3-	H ₃ CO	н	н
YA0425	СН3-	H ₃ CO-{_}-{_}-{_}-{_}-{_}-{_}-{_}-{_}-{_}-{_}	Н	н
YA0426	CH3-		Н	н
YA0427	CH3-	H ₃ CO \t	Н	н
YA0428	CH3-	H ₃ CO-{\rightarrow}^\tau	Н	н
YA0429	СН3	OCH ₃	Н	н
YA0430	СН3	H₃CQ	Н	н
YA0431	CH3-	H₃CO-⟨Û}—	Н	н
YA0432	CH3-	∅ -	Н	Н
YA0433	CH3-		н	н
YA0434	CH3-	F-{_}-{_}-;	н	н
YA0435	CH3-	Q-Q'	н	н
YA0436	СН3-	F	н	н

No.	R1	R2	R3	R4
YA0437	CH3-	F-(Н	н
YA0438	CH3-		Н	н
YA0439	СН3-		н	Н
YA0440	СН3-	F-C	Н	н
YA0441	СН3-		Н	н

YA0442 CH3- H H H YA0443 CH3- HN H H YA0444 CH3- HN H H	No.	R1	R2		
YA0443 CH3- N 1 H H YA0444 CH3- HN 1 H H YA0445 CH3- O 1 H H YA0446 CH3- O 1 H H YA0447 CH3- S 1 H H H YA0448 CH3- S 1 H H H YA0449 CH3- HN 1 H H H YA0450 CH3- HN 1 H H H YA0451 CH3- HN 1 H H H YA0453 CH3- N 1 H H H H YA0454 CH3- N 1 H			A A A	R3	R4
YA0444 CH3- HN H H YA0445 CH3- H H H YA0446 CH3- H H H YA0447 CH3- Si H H YA0448 CH3- HN H H YA0449 CH3- HN H H YA0450 CH3- HN H H YA0451 CH3- HN H H YA0452 CH3- NN H H H YA0453 CH3- NN H H H YA0454 CH3- NN H H H YA0455 CH3- NN H H H YA0456 CH3- NN H H H YA0459 CH3- NN H H H YA0460 CH3- NN H H H YA0461 CH3- NN H H H	YA044	2 CH3-	- CJ'	Н	н
YA0445 CH3- O; H H YA0446 CH3- O; H H YA0447 CH3- S; H H YA0448 CH3- S; H H YA0448 CH3- HNN, H H YA0449 CH3- HNN, H H YA0450 CH3- HNN, H H YA0451 CH3- HNN, H H YA0452 CH3- HNN, H H YA0453 CH3- NN, H H YA0454 CH3- NN, H H YA0455 CH3- NN, H H YA0456 CH3- NN, H H YA0459 CH3- O, H H H YA0460 CH3- O, H H H YA0461 CH3- S, N H H H	YA044	3 СН3-	- N +	Н	Н
YA0446 CH3- CH3- H <t< td=""><td>YA044</td><td>4 снз-</td><td>- HN J,</td><td>Н</td><td>н</td></t<>	YA044	4 снз-	- HN J,	Н	н
YA0447 CH3- S H H YA0448 CH3- S H H YA0449 CH3- HNN H H YA0450 CH3- HNN H H YA0451 CH3- HNN H H YA0452 CH3- HNN H H YA0453 CH3- NN H H YA0454 CH3- NN H H YA0455 CH3- NN H H YA0456 CH3- NN H H YA0458 CH3- NN H H YA0460 CH3- ON H H YA0461 CH3- SN H H YA0462 CH3- SN H H	YA044	5 СН3-	Ori	Н	Н
YA0448 CH3- ST H H YA0449 CH3- HNN H H YA0450 CH3- HNN H H YA0451 CH3- HNN H H YA0452 CH3- HNN H H YA0453 CH3- NN H H YA0454 CH3- NN H H YA0455 CH3- NN H H YA0456 CH3- NN H H YA0457 CH3- SN H H YA0458 CH3- NN H H YA0459 CH3- NN H H YA0460 CH3- NN H H YA0461 CH3- SN H H YA0461 CH3- SN H H YA0461 CH3- SN H H YA0462 CH3- SN H H YA0463 CH3- SN H H YA0461 CH3- SN H H YA0462 CH3- SN H H YA0463 CH3- SN H H YA0461 CH3- SN H H YA0462 CH3- SN H H H	YA0446	6 СН3-	07	Н	Н
YA0449 CH3- HNN- H H H YA0450 CH3- HNN- H H H YA0451 CH3- HNN- H H H YA0452 CH3- HNN- H H H YA0453 CH3- ON- H H H YA0454 CH3- ON- H H H YA0455 CH3- ON- H H H YA0456 CH3- SN- H H H YA0457 CH3- SN- H H H YA0458 CH3- ON- H H H YA0460 CH3- ON- H H H YA0461 CH3- ON- H H H	YA0447	СН3-	S	Н	Н
YA0450 CH3- HN - H H H H YA0451 CH3- HN - H H H H YA0452 CH3- HN - H H H H YA0453 CH3- CH3- H H H YA0454 CH3- CH3- H H H YA0455 CH3- SN - H H H H YA0456 CH3- SN - H H H H YA0457 CH3- SN - H H H H YA0458 CH3- CH3- N - H H H H YA0460 CH3- O - H H H H H H YA0462 CH3- SN - H H<	YA0448	СН3-	S ,	Н	Н
YA0451 CH3- HNN H H YA0452 CH3- NN H H YA0453 CH3- ON H H YA0454 CH3- ON H H YA0455 CH3- ON H H YA0456 CH3- ON H H YA0457 CH3- ON H H YA0458 CH3- ON H H YA0459 CH3- ON H H YA0460 CH3- ON H H YA0461 CH3- ON H H YA0462 CH3- ON H H	YA0449	СН3-	HNN	Н	Н
YA0452 CH3- N H H YA0453 CH3- O H H H YA0454 CH3- O H H H YA0455 CH3- O H H H YA0456 CH3- O H H H YA0457 CH3- O H H H YA0458 CH3- O H H H YA0459 CH3- O H H H YA0460 CH3- O H H H YA0461 CH3- O H H H	YA0450	СН3-		Н	Н
YA0453 CH3- CH3- H H H YA0454 CH3- CH3- H H H YA0455 CH3- CH3- H H H YA0456 CH3- SN- H H H YA0457 CH3- SN- H H H YA0458 CH3- CH3- H H H YA0460 CH3- CH3- CH3- H H H YA0461 CH3- CH3- SN- H H H YA0462 CH3- SN- H H H	YA0451	СН3-	HN /	Н	н
YA0454 CH3- N-O H H YA0455 CH3- N-O H H YA0456 CH3- N-O H H YA0457 CH3- N-S H H YA0458 CH3- N-S H H YA0459 CH3- N-S H H YA0460 CH3- N-S H H YA0461 CH3- N-S H H YA0462 CH3- S-N H H YA0464 CH3- S-N H H YA0462 CH3- S-N H YA0463 CH3- S-N H YA0462 CH3- S-N H YA0463 CH3- S-N H YA0462 CH3- S-N H YA0465 CH3- S-N H YA0462 CH3- S-N H	YA0452	СН3-	N. Y.	н	Н
YA0455 CH3- NO H H YA0456 CH3- SN H H YA0457 CH3- SN H H YA0458 CH3- NO H YA0459 CH3- NO H YA0460 CH3- NO H YA0461 CH3- NO H YA0462 CH3- SN H YA0462 CH3- SN H YA0465 CH3- SN H YA0462 CH3- SN H YA0462 CH3- SN H YA0465 CH3- SN H YA0462 CH3- SN H YA0462 CH3- SN H YA0465 CH3- SN H YA0462 CH3- SN H YA0465 CH3- SN H YA0466 CH3- SN H YA0467 CH3- SN H YA0468	YA0453	CH3-	d _N ,	Н	Н
YA0455 CH3- H H H YA0456 CH3- SN- H H H YA0457 CH3- SN- H H H YA0458 CH3- CH3- H H H YA0459 CH3- CH3- CH3- H H H YA0460 CH3-	YA0454	CH3-	0.7.	н	Н
YA0456 CH3- CH3- H H H YA0457 CH3- SS, H H H H YA0458 CH3- CH3- H H H YA0459 CH3- CH3- H H H YA0460 CH3- CH3- H H H YA0461 CH3- CH3- SS, H H H	YA0455	СН3-	N-O	Н	Н
YA0458 CH3- N-S H H YA0459 CH3- O-N H H YA0460 CH3- ON H H YA0461 CH3- ON H H YA0462 CH3- S-N H	YA0456	СН3~	S _N ,	Н	
YA0459 CH3- O-Y H H YA0460 CH3- O-Y H H YA0461 CH3- O-Y H H YA0462 CH3- S-N	YA0457	CH3-		н	Н
YA0460 CH3- CH3- H H YA0461 CH3- N	YA0458	CH3-		Н	Н
YA0461 CH3- N	YA0459	CH3-		н	Н
YA0462 CH3- S-A	YA0460			н	Н
YA0462 CH3- S-A	YA0461	СН3-	NO,	н	Н
	YA0462	СН3-	S-N	н	Н

No.	R1	R2	R3	R4
YA0463	СН3-	S	Н	H
YA0464	снз-	N ,	Н	Н
YA0465	СН3-		Н	Н
YA0466	CH3-	√	Н	Н
YA0467	CH3-		Н	Н
YA0468	СН3-	€ N+	н	н
YA0469	СН3-	N_N	Н	н
YA0470	СН3-	N->-1	н	Н
YA0471	CH3-	(T)	н	н
YA0472	CH3-		Н	н
YA0473	СН3-	TN H	н	Н
YA0474	CH3-		Н	Н
YA0475	CH3-	,CT)	Н	Н
YA0476	CH3-	<u> </u>	Н	Н
YA0477	CH3-		н	H
YA0478	CH3-		н	Н
YA0479	CH3-		н	н
YA0480	CH3-	TO:	н	н
YA0481	CH3-	,CT)	Н	н
YA0482	CH3-	Ţ?	Н	Н
YA0483	СН3-		Н	Н

YA0484 CH3- H H H YA0485 CH3- H H H YA0486 CH3- H H H YA0487 CH3- H H H YA0488 CH3- H H H YA0490 CH3- H H H YA0491 CH3- H H H YA0492 CH3- H H H YA0493 CH3- H H H YA0494 CH3- H H H YA0495 CH3- H H H YA0496 CH3- H H H YA0497 CH3- H H H YA0499 CH3- H H H YA0500 CH3- H H H YA0502 CH3- H H H YA0504 CH3- H H	No.	R1	R2		
YA0486 CH3- CH3- H <t< td=""><td></td><td></td><td>مير</td><td>R3 H</td><td>R4 H</td></t<>			مير	R3 H	R4 H
YA0487 CH3- CH3- H <t< td=""><td>YA0485</td><td>6 СН3-</td><td></td><td>н</td><td>Н</td></t<>	YA0485	6 СН3-		н	Н
YA0488 CH3- CH3- H H H YA0489 CH3- CH3- H H H YA0490 CH3- CH3- H H H YA0491 CH3- CH3- H H H YA0492 CH3- CH3- H H H YA0493 CH3- CH3- H H H YA0494 CH3- CH3- H H H YA0495 CH3- CH3- H H H YA0496 CH3- CH3- CH3- H H H YA0499 CH3- CH3- CH3- H H H YA0500 CH3- CH3- CH3- H H H YA0503 CH3- CH3- CH3- H H H YA0503 CH3-	YA0486	CH3-	TOS	Н	Н
YA0489 CH3- H	YA0487	CH3-	,CTs	Н	н
YA0490 CH3- N H H YA0491 CH3- N H H YA0492 CH3- N H H YA0493 CH3- N H H YA0494 CH3- N H H YA0495 CH3- N H H YA0496 CH3- N H H YA0497 CH3- N H H YA0498 CH3- N H H YA0500 CH3- N H H YA0501 CH3- N H H YA0502 CH3- N H H YA0503 CH3- N H H YA0504 CH3- N H H	YA0488	СН3-	Ţ\$	Н	Н
YA0491 CH3- CH3- H H H YA0492 CH3- H H H H YA0493 CH3- H H H H YA0494 CH3- H H H H YA0495 CH3- H H H H YA0496 CH3- H H H H YA0497 CH3- H H H H YA0498 CH3- H H H H YA0500 CH3- H H H H YA0501 CH3- H H H H YA0502 CH3- H H H H YA0503 CH3- H H H H	YA0489	CH3-		Н	н
YA0492 CH3- CH3- H H H H YA0493 CH3- H H H H YA0494 CH3- H H H H YA0495 CH3- H H H H YA0496 CH3- H H H H YA0497 CH3- H H H H YA0498 CH3- H H H H YA0499 CH3- H H H H YA0500 CH3- H H H H YA0501 CH3- H H H H YA0503 CH3- H H H H	YA0490	СН3-		Н	н
YA0493 CH3- CH3- H H H YA0494 CH3- CH3- H H H YA0495 CH3- CH3- H H H YA0496 CH3- CH3- H H H YA0497 CH3- CH3- H H H YA0498 CH3- CH3- CH3- H H H YA0500 CH3- CH3- CH3- H H H YA0501 CH3- CH3- CH3- H H H YA0503 CH3- <	YA0491	CH3-	TON THE PROPERTY OF THE PROPER	Н	Н
YA0494 CH3- TH H H YA0495 CH3- TN H H YA0496 CH3- TN H H YA0497 CH3- TN H H YA0498 CH3- TN H H YA0499 CH3- TN H H YA0500 CH3- TN H H YA0501 CH3- TN H H YA0502 CH3- TN H H YA0503 CH3- TN H H	YA0492	СН3-	,CTp	н	Н
YA0495 CH3- N H H H YA0496 CH3- N H H H YA0497 CH3- N H H H YA0498 CH3- N H H H YA0499 CH3- N H H H YA0500 CH3- N H H H YA0501 CH3- N H H H YA0502 CH3- N H H H YA0503 CH3- N H H H	YA0493	СН3-	Ţħ,	н	Н
YA0496 CH3- CH3- H H H YA0497 CH3- CH3- H H H YA0498 CH3- CH3- H H H YA0499 CH3- CH3- H H H YA0500 CH3- CH3- CH3- H H H YA0501 CH3-	YA0494	СН3-		Н	Н
YA0497 CH3- CH3- H H H YA0498 CH3- N H H H YA0499 CH3- N H H H YA0500 CH3- N H H H YA0501 CH3- N H H H YA0502 CH3- N H H H YA0503 CH3- N H H H	YA0495	СН3-	ČI,	н	Н
YA0498 CH3- N H H YA0499 CH3- N H H YA0500 CH3- N H H YA0501 CH3- N H H YA0502 CH3- N H H YA0503 CH3- N H H YA0504 CH3- N N H H	YA0496	CH3-	, N	Н	Н
YA0498 CH3- IN O H H H YA0499 CH3- IN O H H H YA0500 CH3- IN O H H H YA0501 CH3- IN O H H H YA0502 CH3- IN O H H H YA0503 CH3- IN O H H H YA0504 CH3- IN O H H H	YA0497	CH3-		Н	н
YA0500 CH3- \(\frac{1}{2}\)\ \(\frac{1}\)\ \(\frac{1}{2}\)\ \(\frac{1}\)\ \(\frac{1}{2}\)\	YA0498	СН3-	Ž,	Н	i
YA0501 CH3- N H H YA0502 CH3- N H H YA0503 CH3- N H H YA0504 CH3- N H	YA0499	CH3-	N. N.	н	Н
YA0502 CH3-	YA0500	СН3-	1 (I)	н	Н
YA0503 CH3- N H H	YA0501	СН3-	Ţ ^N	н	н
Y40504 CH2	YA0502	CH3-	() s	Н	н
YA0504 CH3- CH3- H H	YA0503	CH3-	Ž _s	н	Н .
	YA0504	СН3-	, CI,	н	н

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<u> </u>	No.	R1	R2	R3	R4
	YA0505	CH3-	\LI\$	н	н
_	YA0506	СН3-	Ž, s	н	Н
	YA0507	СН3-	CZ'n.	Н	Н
	YA0508	СН3-	ĈŢ,	Н	Н
L	YA0509	СН3-	"CTON	н	н
	YA0510	СН3-	, CTON	н	н
L	/A0511	CH3-	ĈŢ\$	н	н
\	/A0512	СН3-	(T)	н	Н
Y	A0513	CH3-		н	Н
Y	'A0514	CH3-	"CIEN	Н	Н
Y	A0515	СН3-	, LIEN	Н	. н
Y	A0516	СН3-	ÇŢ\$N	Н	Н
Υ.	A0517	CH3-	Ç;	н	Н
Υ,	A0518	CH3-	,CD	н	Н
Υ,	A0519	CH3-	(C)	н	н
Υ/	A0520	CH3-		н	Н
YA	N0521	CH3-	CH3-	Н	СНЗ
YA	\0522	CH3-	CH3CH2~	Н	СНЗ
YA	0523	СН3-	∕ ∕\\	н	СНЗ
YA	0524	CH3-	Y	н	CH3
YA	0525	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	СНЗ

YA0526 CH3- H CH3 YA0527 CH3- H CH3 YA0528 CH3- H CH3 YA0529 CH3- H CH3 YA0530 CH3- H CH3 YA0531 CH3- H CH3 YA0532 CH3- H CH3 YA0533 CH3- H CH3 YA0534 CH3- H CH3 YA0535 CH3- H CH3 YA0536 CH3- H CH3 YA0537 CH3- H CH3 YA0538 CH3- H CH3 YA0540 CH3- H CH3 YA0541 CH3- H CH3 YA0542 CH3- H CH3 YA0544 CH3- H CH3 YA0545 CH3- H CH3 YA0546 CH3- H CH3		No.	R1	R2		
YA0527 CH3- H CH3 YA0528 CH3- H CH3 YA0529 CH3- H CH3 YA0530 CH3- H CH3 YA0531 CH3- H CH3 YA0532 CH3- H CH3 YA0533 CH3- H CH3 YA0534 CH3- H CH3 YA0535 CH3- H CH3 YA0536 CH3- H CH3 YA0537 CH3- H CH3 YA0538 CH3- H CH3 YA0540 CH3- H CH3 YA0541 CH3- H CH3 YA0542 CH3- H CH3 YA0543 CH3- H CH3 YA0545 CH3- H CH3 YA0546 CH3- H CH3					R3	R4
YA0528 CH3- H CH3 YA0529 CH3- H CH3 YA0530 CH3- H CH3 YA0531 CH3- H CH3 YA0532 CH3- H CH3 YA0533 CH3- H CH3 YA0534 CH3- H CH3 YA0535 CH3- H CH3 YA0536 CH3- H CH3 YA0537 CH3- H CH3 YA0538 CH3- H CH3 YA0540 CH3- H CH3 YA0541 CH3- H CH3 YA0542 CH3- H CH3 YA0543 CH3- H CH3 YA0545 CH3- H CH3 YA0546 CH3- H CH3		YA0526	CH3-		Н	СНЗ
YA0529 CH3- H CH3 YA0530 CH3- H CH3 YA0531 CH3- H CH3 YA0532 CH3- H CH3 YA0533 CH3- H CH3 YA0534 CH3- H CH3 YA0535 CH3- H CH3 YA0536 CH3- H CH3 YA0537 CH3- H CH3 YA0538 CH3- H CH3 YA0540 CH3- H CH3 YA0541 CH3- H CH3 YA0542 CH3- H CH3 YA0543 CH3- H CH3 YA0545 CH3- H CH3 YA0546 CH3- H CH3		YA0527	CH3-		Н	СНЗ
YA0530 CH3- H CH3 YA0531 CH3- H CH3 YA0532 CH3- H CH3 YA0533 CH3- H CH3 YA0534 CH3- H CH3 YA0535 CH3- H CH3 YA0536 CH3- H CH3 YA0537 CH3- H CH3 YA0538 CH3- H CH3 YA0540 CH3- H CH3 YA0541 CH3- H CH3 YA0542 CH3- H CH3 YA0543 CH3- H CH3 YA0544 CH3- H CH3 YA0545 CH3- H CH3 YA0546 CH3- H CH3	į	YA0528	СН3-	大	Н	СНЗ
YA0531 CH3- H CH3 YA0532 CH3- H CH3 YA0533 CH3- H CH3 YA0534 CH3- H CH3 YA0535 CH3- H CH3 YA0536 CH3- H CH3 YA0537 CH3- H CH3 YA0538 CH3- H CH3 YA0540 CH3- H CH3 YA0541 CH3- H CH3 YA0542 CH3- H CH3 YA0543 CH3- H CH3 YA0544 CH3- H CH3 YA0545 CH3- H CH3 YA0546 CH3- H CH3 YA0546 CH3- H CH3		YA0529	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	СНЗ
YA0532 CH3- H CH3 YA0533 CH3- H CH3 YA0534 CH3- H CH3 YA0535 CH3- H CH3 YA0536 CH3- H CH3 YA0537 CH3- H CH3 YA0538 CH3- H CH3 YA0540 CH3- H CH3 YA0541 CH3- H CH3 YA0542 CH3- H CH3 YA0544 CH3- H CH3 YA0545 CH3- H CH3		YA0530	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	СНЗ
YA0533 CH3- H CH3 YA0534 CH3- H CH3 YA0535 CH3- H CH3 YA0536 CH3- H CH3 YA0537 CH3- H CH3 YA0538 CH3- H CH3 YA0539 CH3- H CH3 YA0540 CH3- H CH3 YA0541 CH3- H CH3 YA0542 CH3- H CH3 YA0543 CH3- H CH3 YA0545 CH3- H CH3 YA0546 CH3- H CH3		YA0531	снз-	Xx	н	СНЗ
YA0533 CH3- H CH3 YA0534 CH3- H CH3 YA0535 CH3- H CH3 YA0536 CH3- H CH3 YA0537 CH3- H CH3 YA0538 CH3- H CH3 YA0539 CH3- H CH3 YA0540 CH3- H CH3 YA0541 CH3- H CH3 YA0542 CH3- H CH3 YA0543 CH3- H CH3 YA0545 CH3- H CH3 YA0546 CH3- H CH3		YA0532	СН3-	7	Н	СНЗ
YA0535 CH3- H CH3 YA0536 CH3- H CH3 YA0537 CH3- H CH3 YA0538 CH3- H CH3 YA0539 CH3- H CH3 YA0540 CH3- H CH3 YA0541 CH3- H CH3 YA0542 CH3- H CH3 YA0543 CH3- H CH3 YA0544 CH3- H CH3 YA0545 CH3- H CH3		YA0533	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		СНЗ
YA0536 CH3- H CH3 YA0537 CH3- H CH3 YA0538 CH3- H CH3 YA0539 CH3- H CH3 YA0540 CH3- H CH3 YA0541 CH3- H CH3 YA0542 CH3- H CH3 YA0543 CH3- H CH3 YA0544 CH3- H CH3 YA0545 CH3- H CH3		YA0534	СН3-		Н	СНЗ
YA0537 CH3- H CH3 YA0538 CH3- H CH3 YA0539 CH3- H CH3 YA0540 CH3- H CH3 YA0541 CH3- H CH3 YA0542 CH3- H CH3 YA0543 CH3- H CH3 YA0544 CH3- H CH3 YA0545 CH3- H CH3		YA0535	CH3~	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	СНЗ
YA0537 CH3- H CH3 YA0538 CH3- H CH3 YA0539 CH3- H CH3 YA0540 CH3- H CH3 YA0541 CH3- H CH3 YA0542 CH3- H CH3 YA0543 CH3- H CH3 YA0544 CH3- H CH3 YA0545 CH3- H CH3		YA0536	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	СНЗ
YA0539 CH3- H CH3 YA0540 CH3- H CH3 YA0541 CH3- H CH3 YA0542 CH3- H CH3 YA0543 CH3- H CH3 YA0544 CH3- H CH3 YA0545 CH3- H CH3 YA0546 CH3- H CH3		YA0537	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	СНЗ
YA0540 CH3- H CH3 YA0541 CH3- H CH3 YA0542 CH3- H CH3 YA0543 CH3- H CH3 YA0544 CH3- H CH3 YA0545 CH3- H CH3 YA0546 CH3- H CH3		YA0538	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	СНЗ
YA0541 CH3- H CH3 YA0542 CH3- H CH3 YA0543 CH3- H CH3 YA0544 CH3- H CH3 YA0545 CH3- H CH3 YA0546 CH3- H CH3		YA0539	CH3-	Q	н	CH3
YA0542 CH3- H CH3 YA0543 CH3- H CH3 YA0544 CH3- H CH3 YA0545 CH3- H CH3 YA0546 CH3- H CH3	L	YA0540	CH3-		н	CH3
YA0543 CH3-		YA0541	CH3-		н	СНЗ
YA0544 CH3- H CH3 YA0545 CH3- H CH3 YA0546 CH3-	١,	YA0542	CH3-	ightharpoonup	. н	СНЗ
YA0545 CH3- H CH3 YA0546 CH3- CH3-	_	/A0543	CH3-	\Diamond	н	СНЗ
YA0546 CH3-	_	A0544	CH3-		Н	СНЗ
YA0546 CH3- H CH3	Y	'A0545	CH3-	\bigcirc \dashv	Н	СНЗ
	Y	'A0546	CH3-	\bigcirc -	Н	СНЗ

No.	R1	R2	R3	
YA0547	СН3-		Н	R4
YA0548	CH3-		Н	СНЗ
YA0549	CH3-	⊘ {	Н	СНЗ
YA0550	СН3-	F 	Н	СНЗ
YA0551	СН3-	F →	н	СНЗ
YA0552	СН3-	F-(Н	СНЗ
YA0553	СН3-		н	СНЗ
YA0554	СН3-	F-_\\\	н	СНЗ
YA0555	CH3-	CI	н	СНЗ
YA0556	CH3-	CI	, Н	СНЗ
YA0557	СН3-	CH{}	н	СНЗ
YA0558	CH3-	CH	н	СНЗ
YA0559	СН3-	CH	Н	CH3
YA0560	CH3-	Br	Н	СНЗ
YA0561	СН3-	Br	н	СНЗ
YA0562	CH3-	Br—{_}-{	н	СНЗ
YA0563	CH3-	Br—⟨_ <mark>>→</mark> }	. н	СНЗ
YA0564	CH3-	Br—⟨\/ _I {	н	СНЗ
YA0565	СН3		н	СНЗ
YA0566	СН3-		н	CH3
YA0567	СН3-		н	CH3

YA0568 CH3- CH3- H CH3 H CH3 YA0569 CH3- H3C- H CH3 H CH3 YA0570 CH3- H3C- H CH3 H CH3 YA0571 CH3- C2H6- H CH3 H CH3 YA0572 CH3- PC4H9- H CH3 H CH3 YA0573 CH3- PC4H9- H CH3 H CH3 YA0574 CH3- HO- H CH3 H CH3 YA0575 CH3- HO- H CH3 H CH3 YA0577 CH3- H3CO H CH3 H CH3 YA0578 CH3- H3CO H CH3 H CH3 YA0580 CH3- H3CO H CH3 H CH3 YA0581 CH3- C2H5O H CH3 H CH3 YA0584	No.	R1	R2		
YA0568 CH3- H3C H CH3 YA0570 CH3- H3C H CH3 YA0571 CH3- C2H5- H CH3 YA0572 CH3- n-C3H7- H CH3 YA0573 CH3- n-C4H9- H CH3 YA0574 CH3- H CH3 YA0575 CH3- HO H CH3 YA0576 CH3- HO H CH3 YA0577 CH3- H3CO H CH3 YA0578 CH3- H3CO H CH3 YA0579 CH3- H3CO H CH3 YA0581 CH3- H3CO H CH3 YA0582 CH3- H3CO H CH3 YA0583 CH3- C2H5O H CH3 YA0584 CH3- C2H5O H CH3 YA0586 CH3- NO2 H CH3 YA0587 CH3- NO2 H CH3 YA0588 CH3- NO	·		CH ₂	R3	R4
YA0569 CH3- H3C- H CH3 YA0570 CH3- H3C- H CH3 YA0571 CH3- C2H5- H CH3 YA0572 CH3- n-C3H7- H CH3 YA0573 CH3- n-C4H9- H CH3 YA0574 CH3- H CH3 YA0575 CH3- HO- H CH3 YA0576 CH3- HO- H CH3 YA0577 CH3- H3CO- H CH3 YA0578 CH3- H3CO- H CH3 YA0580 CH3- H3CO- H CH3 YA0581 CH3- H3CO- H CH3 YA0582 CH3- C2H5O- H CH3 YA0583 CH3- C2H5O- H CH3 YA0586 CH3- n-C4H9O- H CH3 YA0587 CH3- NO2 H CH3 YA0588 CH3- NO2 H CH3	YA056	8 CH3-	<u></u>	н	СНЗ
YA0571 CH3- C2H5 H CH3 YA0572 CH3- □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□	YA056	9 СН3-	H ₃ C	Н	СНЗ
YA0572 CH3- n-C₃H₁ ← ← H CH3 YA0573 CH3- n-C₄H₀ ← ← H CH3 YA0574 CH3- OH H CH3 YA0575 CH3- HO ← ← H CH3 YA0576 CH3- HO ← ← H CH3 YA0577 CH3- OCH₃ H CH3 YA0578 CH3- H₃CO ← ← H CH3 YA0579 CH3- H₃CO ← ← H CH3 YA0580 CH3- H₃CO ← ← H CH3 YA0581 CH3- H₃CO ← ← H CH3 YA0582 CH3- CH3- H CH3 YA0583 CH3- CH3- H CH3 YA0584 CH3- C2H₅O H CH3 YA0586 CH3- n-C₄H₀O H CH3 YA0587 CH3- NO₂ H CH3 YA0588 CH3- NO₂ H CH3	YA0570	О СН3-	H ₃ C-{}_{}	н	СНЗ
YA0573 CH3- ∩-C₄Hg H CH3 YA0574 CH3- OH H CH3 YA0575 CH3- HO H CH3 YA0576 CH3- HO H CH3 YA0577 CH3- OCH3 H CH3 YA0578 CH3- H3CO H CH3 YA0579 CH3- H3CO H CH3 YA0580 CH3- H3CO H CH3 YA0581 CH3- H3CO H CH3 YA0582 CH3- CH3- H CH3 YA0583 CH3- C2H5O H CH3 YA0584 CH3- C2H5O H CH3 YA0585 CH3- NC2H5O H CH3 YA0587 CH3- NO2 H CH3 YA0588 CH3- NO2 H CH3 YA0588 CH3- NO2 H CH3	YA0571	СН3-	C ₂ H ₅ -{_}	Н	СНЗ
YA0574 CH3- OH H CH3 YA0575 CH3- HO H CH3 YA0576 CH3- HO H CH3 YA0577 CH3- H3CO H CH3 YA0578 CH3- H3CO H CH3 YA0579 CH3- H3CO H CH3 YA0580 CH3- H3CO H CH3 YA0581 CH3- H3CO H CH3 YA0582 CH3- OC2H6 H CH3 YA0583 CH3- C2H5O H CH3 YA0584 CH3- C2H5O H CH3 YA0585 CH3- RC3H7O H CH3 YA0586 CH3- RC4H9O H CH3 YA0587 CH3- RO2 H CH3	YA0572	CH3~	n-C ₃ H ₇ -{}-{	н	СНЗ
YA0574 CH3- HO H CH3 YA0575 CH3- HO H CH3 YA0576 CH3- HO H CH3 YA0577 CH3- H CH3 H CH3 YA0578 CH3- H3CO H CH3 YA0579 CH3- H3CO H CH3 YA0580 CH3- H3CO H CH3 YA0581 CH3- H3CO H CH3 YA0582 CH3- H3CO H CH3 YA0583 CH3- C2H5O H CH3 YA0584 CH3- C2H5O H CH3 YA0585 CH3- RC3H7O H CH3 YA0586 CH3- RC4H9O H CH3 YA0587 CH3- RC4H9O H CH3	YA0573	СН3-		н	CH3
YA0575 CH3- HO- H CH3 YA0576 CH3- HO- H CH3 YA0577 CH3- H CH3 YA0578 CH3- H3CO- H CH3 YA0579 CH3- H3CO- H CH3 YA0580 CH3- H3CO- H CH3 YA0581 CH3- H3CO- H CH3 YA0582 CH3- CH3- H CH3 YA0583 CH3- C2H5O- H CH3 YA0584 CH3- C2H5O- H CH3 YA0585 CH3- NC2H9O- H CH3 YA0586 CH3- NO2 H CH3 YA0587 CH3- NO2 H CH3	YA0574	СН3-	OH ○	н	CH3
YA0577 CH3- OCH3 H CH3 YA0578 CH3- H3CO H CH3 YA0579 CH3- H3CO H CH3 YA0580 CH3- H3CO H CH3 YA0581 CH3- H3CO H CH3 YA0582 CH3- OC2H5 H CH3 YA0583 CH3- C2H5O H CH3 YA0584 CH3- C2H5O H CH3 YA0585 CH3- NC2H9O H CH3 YA0586 CH3- NO2 H CH3 YA0587 CH3- NO2 H CH3 YA0588 CH3- NO2 H CH3	YA0575	СН3-	HO ·	н	СНЗ
YA0577 CH3- H CH3 YA0578 CH3- H3CO H CH3 YA0579 CH3- H3CO H CH3 YA0580 CH3- H3CO H CH3 YA0581 CH3- H3CO H CH3 YA0582 CH3- CH3- H CH3 YA0583 CH3- C2H5O H CH3 YA0584 CH3- C2H5O H CH3 YA0585 CH3- NC2H7O H CH3 YA0586 CH3- NO2 H CH3 YA0587 CH3- NO2 H CH3	YA0576	CH3~	, ~	Н	СНЗ
YA0578 CH3- H3CO- H CH3 YA0580 CH3- H3CO- H CH3 YA0581 CH3- H3CO- H CH3 YA0581 CH3- H CH3 YA0582 CH3- CH3- H CH3 YA0583 CH3- C2H5O- H CH3 YA0584 CH3- C2H5O- H CH3 YA0585 CH3- NC3H7O- H CH3 YA0586 CH3- NO2 H CH3 YA0588 CH3- NO2 H CH3	YA0577	СН3-	◯ →	Н	СНЗ
YA0580 CH3- H_3 CO- H CH3 YA0581 CH3- H_3 CO- H CH3 YA0582 CH3- OC $_2$ H $_5$ H CH3 YA0583 CH3- C_2 H $_5$ O- H CH3 YA0584 CH3- C_2 H $_5$ O- H CH3 YA0585 CH3- D_2 H $_3$ O- H CH3 YA0586 CH3- D_2 H $_3$ O- H CH3 YA0587 CH3- D_2 H $_3$ O- H CH3 YA0588 CH3- D_2 H $_3$ O- H CH3	YA0578	СН3-	H ₃ CO	н	СНЗ
YA0581 CH3- H_3 CO- H CH3 YA0582 CH3- OC ₂ H ₅ H CH3 YA0583 CH3- C_2H_5 O- H CH3 YA0584 CH3- C_2H_5 O- H CH3 YA0585 CH3- n - C_3H_7 O- H CH3 YA0586 CH3- n - C_4H_9 O- H CH3 YA0587 CH3- N O ₂ H CH3 YA0588 CH3- O ₂ N H CH3	YA0579	СН3-	H ₃ CO-{}-{	н	СНЗ
YA0582 CH3- OC2H5 H CH3 YA0583 CH3- C2H5O H CH3 YA0584 CH3- C2H5O- H CH3 YA0585 CH3- n - C_3H_7O - H CH3 YA0586 CH3- n - C_4H_9O - H CH3 YA0587 CH3- O_2N H CH3	YA0580	СН3~	H ₃ CO-{_}-{	н	CH3
YA0582 CH3- \bigcirc	YA0581	СН3-		Н	СНЗ
YA0583 CH3- \bigcirc	YA0582	CH3-		н	
YA0585 CH3- n -C ₃ H ₇ O- \bigcirc - \bigcirc - \bigcirc H CH3 YA0586 CH3- n -C ₄ H ₉ O- \bigcirc - \bigcirc - \bigcirc H CH3 YA0587 CH3- \bigcirc -	YA0583	CH3-	C ₂ H ₅ O	н	СНЗ
YA0586 CH3- NO ₂ H CH3 YA0587 CH3- NO ₂ H CH3 YA0588 CH2- O ₂ N	YA0584	CH3~	C ₂ H ₅ O-{}	. н	СНЗ
YA0588 CH3- NO ₂ H CH3 YA0588 CH3- O ₂ N	YA0585	CH3-	n-C ₃ H ₇ O-	н	СНЗ
YA0588 CH3- O ₂ N H CH3	YA0586	CH3-		Н	СНЗ
YA0588 CH2- - >	YA0587	CH3-	NO ₂	Н	СНЗ
	YA0588	СН3-	O ₂ N	н	СНЗ

YA0589 CH3- O₂N- H CH3 YA0590 CH3- CN H CH3 YA0591 CH3- H CH3 YA0592 CH3- NC H CH3 YA0593 CH3- CF3- H CH3 YA0594 CH3- F3C H CH3 YA0595 CH3- F3C H CH3 YA0596 CH3- COOH H CH3 YA0597 CH3- HOOC H CH3 YA0598 CH3- HOOC H CH3 YA0599 CH3- CO₂Me H CH3 YA0600 CH3- MeO₂C H CH3 YA0601 CH3- MeO₂C H CH3 YA0602 CH3- EIO₂C H CH3 YA0603 CH3- SMe H CH3 YA0605 CH3- MeS H CH3 YA0606	No.	R1	T DO		
YA0590 CH3- CN	110.	 	R2	R3	R4
YA0590 CH3- H CH3 YA0591 CH3- NC H CH3 YA0592 CH3- NC H CH3 YA0593 CH3- F3C H CH3 YA0594 CH3- F3C H CH3 YA0595 CH3- F3C H CH3 YA0596 CH3- HOOC H CH3 YA0597 CH3- HOOC H CH3 YA0598 CH3- HOOC H CH3 YA0609 CH3- HOOC H CH3 YA0600 CH3- HOOC H CH3 YA0601 CH3- HOOC H CH3 YA0602 CH3- HOOC H CH3 YA0603 CH3- HOOC H CH3 YA0604 CH3- SOO H CH3 YA0605 CH3- HOOC H CH3 YA0606 CH3- HOOC H CH3 YA0607 CH3- HOOC	YA0589	СН3-		Н	СНЗ
YA0591 CH3- H CH3 YA0592 CH3- NC- H CH3 YA0593 CH3- F3C- H CH3 YA0594 CH3- F3C- H CH3 YA0595 CH3- F3C- H CH3 YA0596 CH3- HOOC H CH3 YA0597 CH3- HOOC H CH3 YA0598 CH3- HOOC H CH3 YA0600 CH3- HOOC H CH3 YA0601 CH3- HOOC H CH3 YA0602 CH3- HOOC H CH3 YA0603 CH3- CO2Et H CH3 YA0604 CH3- EIO2C H CH3 YA0605 CH3- SMe H CH3 YA0606 CH3- HOOC H CH3 YA0607 CH3- MeS H CH3 YA0608 CH3- HOOC H CH3 YA0608 CH3- HOOC	YA0590	СН3-		н	СНЗ
YA0593 CH3- CF3 H CH3 YA0594 CH3- F3C- H CH3 YA0595 CH3- F3C- H CH3 YA0596 CH3- HOOC H CH3 YA0597 CH3- HOOC H CH3 YA0598 CH3- HOOC H CH3 YA0599 CH3- CO2Me H CH3 YA0600 CH3- H CH3 YA0601 CH3- MeO2C H CH3 YA0602 CH3- CO2Et H CH3 YA0603 CH3- EtO2C H CH3 YA0604 CH3- SMe H CH3 YA0605 CH3- MeS H CH3 YA0606 CH3- MeS H CH3 YA0607 CH3- MeS H CH3 YA0608 CH3- MeO2S H CH3	YA0591	СН3-	NC	Н	CH3
YA0593 CH3- Image: CH3- I	YA0592	СН3-	,	Н	СНЗ
YA0594 CH3- Image: CH3- Imag	YA0593	СН3-		Н	СНЗ
YA0596 CH3- COOH H CH3 YA0597 CH3- HOOC H CH3 YA0598 CH3- HOOC H CH3 YA0599 CH3- CO₂Me H CH3 YA0600 CH3- MeO₂C H CH3 YA0601 CH3- MeO₂C H CH3 YA0602 CH3- CH3- H CH3 YA0603 CH3- EtO₂C H CH3 YA0604 CH3- EtO₂C H CH3 YA0605 CH3- SMe H CH3 YA0606 CH3- MeS H CH3 YA0607 CH3- MeS H CH3 YA0608 CH3- MeO₂S H CH3	YA0594	СН3-	F ₃ C	н	СНЗ
YA0596 CH3- HOOC H CH3 YA0597 CH3- HOOC H CH3 YA0598 CH3- HOOC H CH3 YA0599 CH3- CO₂Me H CH3 YA0600 CH3- MeO₂C H CH3 YA0601 CH3- MeO₂C H CH3 YA0602 CH3- CO₂Et H CH3 YA0603 CH3- EtO₂C H CH3 YA0604 CH3- EtO₂C H CH3 YA0605 CH3- MeS H CH3 YA0606 CH3- MeS H CH3 YA0607 CH3- MeS H CH3 YA0608 CH3- MeS H CH3 YA0608 CH3- MeO₂S H CH3	YA0595	СН3-		Н	СНЗ
YA0597 CH3- HOOC H CH3 YA0598 CH3- HOOC H CH3 YA0599 CH3- HOO2C H CH3 YA0600 CH3- MeO2C H CH3 YA0601 CH3- MeO2C H CH3 YA0602 CH3- EtO2C H CH3 YA0603 CH3- EtO2C H CH3 YA0604 CH3- SMe H CH3 YA0605 CH3- H CH3 YA0606 CH3- H CH3 YA0607 CH3- MeS H CH3 YA0608 CH3- SO2Me H CH3	YA0596	СН3-		н	СНЗ
YA0599 CH3- CO₂Me H CH3 YA0600 CH3- MeO₂C H CH3 YA0601 CH3- MeO₂C H CH3 YA0602 CH3- CO₂Et H CH3 YA0603 CH3- EtO₂C H CH3 YA0604 CH3- EtO₂C H CH3 YA0605 CH3- SMe H CH3 YA0606 CH3- MeS H CH3 YA0607 CH3- MeS H CH3 YA0608 CH3- MeO₂S H CH3	YA0597	СН3-	HOOC	н	СНЗ
YA0599 CH3- H CH3 YA0600 CH3- MeO₂C H CH3 YA0601 CH3- MeO₂C H CH3 YA0602 CH3- CO₂Et H CH3 YA0603 CH3- EtO₂C H CH3 YA0604 CH3- EtO₂C H CH3 YA0605 CH3- SMe H CH3 YA0606 CH3- H CH3 YA0607 CH3- MeS H CH3 YA0608 CH3- SO₂Me H CH3 YA0608 CH3- MeO₂S H CH3	YA0598	CH3-		н	СНЗ
YA0600 CH3- H CH3 YA0601 CH3- MeO₂C- H CH3 YA0602 CH3- CO₂Et H CH3 YA0603 CH3- EtO₂C- H CH3 YA0604 CH3- EtO₂C- H CH3 YA0605 CH3- SMe H CH3 YA0606 CH3- MeS H CH3 YA0607 CH3- MeS- H CH3 YA0608 CH3- MeO₂S H CH3	YA0599	CH3-	⟨ ,	н	СНЗ
YA0602 CH3- CO₂Et H CH3 YA0603 CH3- EtO₂C H CH3 YA0604 CH3- EtO₂C- H CH3 YA0605 CH3- SMe H CH3 YA0606 CH3- H CH3 YA0607 CH3- MeS- H CH3 YA0608 CH3- SO₂Me H CH3 YA0608 CH3- MeO₂S H CH3	YA0600	CH3-	MeO ₂ C	н	СНЗ
YA0602 CH3- ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	YA0601	СН3-	1	н	СНЗ
YA0603 CH3- H CH3 YA0604 CH3- EtO₂C- H CH3 YA0605 CH3- SMe H CH3 YA0606 CH3- MeS H CH3 YA0607 CH3- MeS- H CH3 YA0608 CH3- SO₂Me H CH3 YA0600 CH3- MeO₂S H CH3	YA0602	CH3-	─	н	СНЗ
YA0605 CH3- SMe	YA0603	CH3-	EtO ₂ C	н	CH3
YA0605 CH3− H CH3 YA0606 CH3− MeS H CH3 YA0607 CH3− MeS− H CH3 YA0608 CH3− SO₂Me H CH3 YA0600 CH3− MeO₂S H CH3	YA0604	CH3-		Н	СНЗ
YA0606 CH3- H CH3 YA0607 CH3- MeS- H CH3 YA0608 CH3- SO ₂ Me H CH3 YA0600 CH3- MeO ₂ S H CH3	YA0605	CH3-	⟨	. н	СНЗ
YA0608 CH3- SO ₂ Me H CH3 YA0608 CH3- MeO ₂ S	YA0606	CH3-	MeS	Н	СНЗ
YA0608 CH3- H CH3 WA0600 CH3- H CH3	YA0607	CH3-		н	СНЗ
VANCON I OLIO I " _ I I	YA0608	СН3-	<u> </u>	н	СНЗ
	YA0609	СН3~	MeO ₂ S	н	СНЗ

No.	R1	R2	R3	D4
YA0610	СН3-	MeO ₂ S-{}	H	R4 CH3
YA0611	CH3-	NH ₂	Н	СНЗ
YA0612	СН3-	H ₂ N	Н	СНЗ
YA0613	СН3-	H_2N-	н	СНЗ
YA0614	CH3	NMe₂ —∤	н	СНЗ
YA0615	снз-	Me ₂ N	н	СНЗ
YA0616	CH3-	Me ₂ N-{	Н	CH3
YA0617	снз-		Н	СНЗ
YA0618	СН3-		н	СНЗ
YA0619	СН3-	\(\n_\)i	н	СНЗ
YA0620	СН3-		Н	СНЗ
YA0621	CH3-		Н	СНЗ
YA0622	снз-	_\-_\-\\	н	СНЗ
YA0623	CH3-		н	СНЗ
YA0624	CH3-		н	. СН3
YA0625	CH3-	< <u></u> \-_};	н	СНЗ
YA0626	CH3-	H3CN N-	н	СНЗ
YA0627	CH3- ·	H ₃ CN N-	н	СНЗ
YA0628	СН3-	H ₃ CN_N-{_}/	н	СНЗ
YA0629	СН3~	H₃C_CH₃ ⟨□}→	н	СНЗ
YA0630	СН3-	H ₃ C-{\bigcreak}	Н	СНЗ

No.	l R1	R2	Do	
YA0631	CH3-	CH ₃ H ₃ C	R3 H	CH3
YA0632	СН3-	CH₃ CH₃	Н	СНЗ
YA0633	СН3-	H₃C H₃C-⟨}-}	Н	СНЗ
YA0634	СН3-	H ₃ C H ₃ C	н	СНЗ
YA0635	СН3-	F,F	н	СНЗ
YA0636	СН3-	F——F	Н	СНЗ
YA0637	СН3-	F F	Н	СНЗ
YA0638	СН3-	F F	н	снз
YA0639	CH3-	F—	н	СНЗ
YA0640	CH3-	F F	Н	СНЗ
YA0641	CH3-	CI_CI	Н	СНЗ
YA0642	CH3-	CI—CI	Н	СНЗ
YA0643	СН3-	CI	н	СНЗ
YA0644	СН3-	CI	Н	СНЗ

No.	R1	R2	R3	R4
YA0645	СН3-	CI────────	н	СНЗ
YA0646	СН3-	CI CI	Н	СНЗ
YA0647	СН3-	H ₃ CO_OCH ₃	н	СНЗ
YA0648	СН3	OCH ₃ H₃CO-⟨}-;	Н	СНЗ
YA0649	СН3-	OCH₃ → H₃CO	Н	СНЗ
YA0650	CH3-	OCH ₃ OCH ₃	Н	СНЗ
YA0651	СН3-	H₃CO H₃CO-⟨¯¯}}	н	СНЗ

No.	R1	R2	R3	T
		H ₃ CQ_	110	R4
YA0652	CH3-	H₃CO	н	СНЗ
YA0653	CH3-	F_OCH₃	н	CH3
YA0654	СН3-	P—(□)—;	н	СНЗ
YA0655	СН3-	OCH ₃ F—	н	СНЗ
YA0656	СН3-	OCH ₃	Н	СНЗ
YA0657	СН3-	OCH ₃	Н	СНЗ
YA0658	СН3-	OCH ₃	н	СНЗ
YA0659	СН3-	H₃CO F—	н	СНЗ
YA0660	СН3-	H₃CO ↓ F	н	СНЗ
YA0661	СН3-	H₃CO_F	н	СНЗ
YA0662	СН3-	H₃CO-⟨¯¯	Н	СНЗ
YA0663	СН3-	F H₃CO	н	СНЗ
YA0664	СН3-	H₃CO-⟨_}	н	СНЗ
YA0665	СН3-	CI_OCH₃	н	СН3

No.	R1	R2	R3	R4
YA0666	СН3-	CI—COCH ₃	Н	СНЗ
YA0667	СН3-	OCH ₃ CI	н	СНЗ
YA0668	СН3-	OCH ₃ CI	Н	СНЗ
YA0669	CH3-	H₃CO CI—{}	Н	СНЗ
YA0670	CH3-	H ₃ CO CI	Н	СНЗ
YA0671	СН3-	H₃CO_CI	Н	СНЗ
YA0672	СН3	CI H₃CO-⟨¯_}	н	СНЗ

No.	R1	R2	R3	R4
YA0673	СН3-	H ₃ CO	Н	CH3
YA0674	СН3-	CI H₃CO-⟨¯¯}—{	н	СНЗ
YA0675	СН3-	F_CH ₃	н	СНЗ
YA0676	СН3-	CH ₃ F—{}	н	СНЗ
YA0677	СН3-	FCH ₃	Н	СНЗ
YA0678	СН3-	CH ₃	н	СНЗ
YA0679	СН3-	H₃C F—⟨\$	н	СНЗ
YA0680	СН3-	H₃C F	н	СНЗ
YA0681	СН3-	H ₃ C F	Н	СНЗ
YA0682	CH3-	H₃C-⟨	н	СНЗ
YA0683	CH3-	H₃C F	Н	СНЗ
YA0684	СН3-	F_ H₃C-⟨¯_}→	н	СНЗ
YA0685	СН3-	Br_OCH ₃	н	СНЗ
YA0686	СН3-	OCH ₃	Н	СНЗ

No.	R1	R2	R3	R4
YA0687	CH3-	OCH₃ Br	Н	СНЗ
YA0688	CH3-	OCH₃ ⇒ Br	н	СНЗ
YA0689	CH3-	H₃CO Br—∰}	H.	снз
YA0690	CH3-	H ₃ CQ Br	H	СНЗ
YA0691	СН3-	H₃CO_Br	н	СНЗ
YA0692	СН3-	Br H₃CO-⟨□}	Н	СНЗ
YA0693	СН3-	Br H₃CO	Н	СНЗ

No.	R1	R2	R3	R4
YA0694	CH3-	Br H₃CO-{-}-}	Н	СНЗ
YA0695	СН3-	H ₃ CQ_>	Н	СНЗ
YA0696	CH3	OCH ₃	Н	СНЗ
YA0697	СН3-		Н	снз
YA0698	СН3-	H ₃ CO >	Н	СНЗ
YA0699	СН3	H ₃ CO N-	Н	СНЗ
YA0700	СН3-	CN → OCH3	Н	СНЗ
YA0701 _.	СН3-	F F	Н	СНЗ
YA0702	СН3-	OCH₃ F—⟨_→; F	н	СНЗ
YA0703	СН3-	H₃CO-{∑F F	н	СНЗ
YA0704	CH3-	OCH ₃ F—⟨} OCH ₃	н	СНЗ
YA0705	СН3-	OCH ₃ H ₃ CO-{_}}-} OCH ₃	н	СНЗ
YA0706	CH3-	CI—CI	н	СНЗ
YA0707	СН3-	CI→CCH3	Н	СНЗ

No.	R1	R2	R3	R4
YA0708	СН3-	H ₃ CO-{_}{}; CI	Н	CH3
YA0709	СН3-	OCH ₃	Н	СНЗ
YA0710	CH3-	H ₃ CO-{_}-{ OCH ₃	н	СНЗ
YA0711	СН3-	OCH ₃	н	СНЗ
YA0712	CH3-	H ₃ CQ	H	СНЗ
YA0713	СН3-	H3CO-{	Н	СНЗ
YA0714	СН3-	OCH ₃ }	н	СНЗ

No.	R1	R2	R3	R4
YA0715	CH3-	H ₃ CO	Н	СНЗ
YA0716	СН3-	H3CO-{\}	н	СНЗ
YA0717	CH3-	OCH ₃	н	СНЗ
YA0718	СН3-	H ₃ CO	Н	СНЗ
YA0719	CH3-	H ₃ CO-{_}	н	СНЗ
YA0720	СН3-	F	Н	СНЗ
YA0721	CH3-	F	Н	СНЗ
YA0722	СН3-	F-{}-{}-{}-{}-{}-{}-{}-{}-{}-{}-{}-{}-{}-	н	СНЗ
YA0723	CH3-	△ - △ `	н	. СН3
YA0724	CH3-	, , , , , , , , , , , , , , , , , , ,	Н	СНЗ
YA0725	СН3-		Н	СНЗ
YA0726	СН3-	Ø	н	СНЗ
YA0727	СН3-	F	Н	СНЗ
YA0728	СН3-	F-(Н	снз

No.	R1	R2	R3	R4
YA0729	CH3-		н	СНЗ
YA0730	СН3-	CC '	н	СНЗ
YA0731	СН3-	CH3-	Н	
YA0732	CH3-	СН3СН2-	Н	
YA0733	СН3-	^ \	Н	Qu
YA0734	СН3-	7	н	Q
YA0735	CH3-	\\\\	н	

No.	R1	R2	R3	R4
YA0736	СН3-	Li	Н	Qu
YA0737	CH3-	7	н	Qu
YA0738	CH3-	7	н	Qu
YA0739	СН3-	^	н	Q.
YA0740	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	
YA0741	СН3-	X	н	
YA0742	СН3-	7	н	Q
YA0743	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Q
YA0744	СН3-		Н	Q
YA0745	CH3-	^	. н	Q
YA0746	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	
YA0747	CH3-	\\\\	н	
YA0748	CH3-		H	
YA0749	СН3-		Н	
YA0750	CH3-		Н	
YA0751	CH3-		н	
YA0752	CH3-	$\triangleright \rightarrow$	н	
YA0753	CH3-	\Diamond - \Box	н	Q
YA0754	CH3-	$\bigcirc \!$	Н	
YA0755	СН3-	\bigcirc \dashv	Н	Q
YA0756	СН3-	\bigcirc \vdash	н	Qu

No.	R1			
		R2	R3	R4
YA0757	CH3-		Н	Dr
YA0758	СН3-		н	Qu
YA0759	СН3-		н	Qu
YA0760	CH3-	₽	н	Q
YA0761	СН3-		н	
YA0762	СН3-	F-(-)	н	Q
YA0763	СН3-	F-()-{	Н	Q
YA0764	СН3-	F—()····(Н	Q
YA0765	СН3-	CI	Н	Qu
YA0766	СН3-	CI	Н	
YA0767	СН3-	C⊢ (_)~{	Н	
YA0768	СН3-	CH	н	Q
YA0769	СН3-	C⊢∕m{	Н	
YA0770	СН3-	Br	н	
YA0771	CH3-	Br	н	
YA0772	CH3-	Br—{}	Н	
YA0773	CH3-	Br—()	. Н	
YA0774	CH3-	Br—⟨⟩ı∤	н	
YA0775	СН3-		н	
YA0776	СН3-		н	
YA0777	СН3-		н	

No.	R1	R2		
YA0778		CH ₃	R3	R4
YA0779	СН3-	H ₃ C	н	
YA0780	СН3-	H ₃ C-{_}	н	Qu
YA0781	CH3-	C ₂ H ₅ -{	Н	
YA0782	CH3-	n-C ₃ H ₇ -	н	Q
YA0783	СН3-	n-C ₄ H ₉ —{{}	Н	Q
YA0784	СН3-	OH OH	н	Qu
YA0785	СН3-	HO	н	Qu
YA0786	СН3-	HO-{\bar{\bar{\bar{\bar{\bar{\bar{\bar	Н	Qu
YA0787	СН3-	OCH ₃	н	Qu
YA0788	СН3-	H ₃ CO	н	Qu
YA0789	СН3	H ₃ CO-{	н	Q
YA0790	CH3-	H₃CO-{\rightarrow}-{\rightarrow}-{\rightarrow}-{\rightarrow}	Н	
YA0791	CH3	H ₃ CO-\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Q
YA0792	CH3-	OC ₂ H ₅	н	Qu
YA0793	СН3-	C ₂ H ₅ O	Н	Q
YA0794	СН3-	C ₂ H ₅ O-{	Н	Qu
YA0795	CH3-	n-C₃H ₇ O- ⟨_ }{	Н	
YA0796	СН3-	n-C₄H ₉ O-∕}-{	н	
YA0797	CH3-	NO ₂	н	
YA0798 ·	CH3-	O ₂ N	н	

No.	R1	700		
		R2	R3	R4
YA079	9 CH3-		н	Di
YA080	0 снз-		н	Qu
YA080	1 СН3-	NC	Н	Q
YA0802	CH3-		н	Q
YA0803	СН3-	CF ₃	н	Q
YA0804	СН3-	F ₃ C	н	Q
YA0805	СН3-	F ₃ C-{{}	Н	Q
YA0806	снз-	COOH	н	Q
YA0807	СН3-	HOOC	н	
YA0808	СН3-	HOOC-{_}	н	Q
YA0809	CH3-	CO ₂ Me	н	
YA0810	CH3-	MeO ₂ C	Н	Q
YA0811	СН3-	MeO ₂ C-{{}	н	
YA0812	CH3-	CO ₂ Et	н	
YA0813	CH3-	EtO ₂ C	н	
YA0814	CH3-	EtO ₂ C-{}	н	
YA0815	CH3-	SMe	_ н [
YA0816	CH3-	MeS	н (
YA0817	CH3-	MeS-{_}{	н	
YA0818	СН3-	SO ₂ Me	н	
YA0819	СН3-	MeO ₂ S	н	

No.	R1	R2	50	
YA0820	СН3-	MeO ₂ S-{	R3 H	R4
YA0821	СН3-	NH ₂	н	
YA0822	СН3-	H ₂ N	Н	
YA0823	СН3-	H_2N-	н	
YA0824	СН3-	NMe ₂	н	
YA0825	СН3-	Me ₂ N	Н	
YA0826	СН3-	Me ₂ N-{	н	Q
YA0827	СН3-	CN-	н	
YA0828	CH3-	(N-{\bigs_}	Н	Q
YA0829	CH3-		н	Q
YA0830	СН3-	(n-<)	н	Q
YA0831	CH3-		н	Q
YA0832	CH3-	Cν-⟨∑-;	Н	
YA0833	CH3-	<_n-<	н	
YA0834	СН3-	< <u></u> N-⟨∑}	Н	
YA0835	СН3-	O_N-{_}}	н	Q
YA0836	CH3-	H ₃ CN N-	. Н	
YA0837	CH3-	H₃CN_N-⟨_}	н	
YA0838		H ₃ CN_N-{}-{	Н	
YA0839	CH3-	H ₃ C_CH ₃	н	
YA0840 ·	СН3-	CH ₃	Н	

No.	R1	R2	R3	L R4
YA0841		H ₃ C	н	
YA0842	CH3-	CH ₃ CH ₃	Н	
YA0843	СН3-	H ₃ C	Н	Q
YA0844	CH3-	H ₃ C H ₃ C	н	Q
YA0845	СН3-	F,	н	
YA0846	СН3-	F—⟨F	н	
YA0847	CH3-	Ş F	Н	
YA0848	СН3-	Ş ^F F	Н	
YA0849	CH3-	F—————————————————————————————————————	н	Q
YA0850	CH3-	F F	Н	
YA0851	СН3-	CI	Н	Q
YA0852	СН3-	CI—CI	Н	Qu
YA0853	CH3-	CI CI	н .	
YA0854	CH3-	CI CI	н	
YA0855	СН3-	CI∰	н	

No.	R1	R2	R3	R4
YA0856	СН3-	CI	Н	Q
YA0857	СН3-	H₃CO_OCH₃	н	Q
YA0858	СН3-	OCH₃ H₃CO-	н	
YA0859	СН3-	OCH ₃ H₃CO	Н	Qu
YA0860	CH3-	OCH ₃ OCH ₃	н	
YA0861	СН3-	H₃CO H₃CO-⟨¯}→}	н	Q

No.	R1	R2	R3	
YA0862		H ₃ CO	Н	R4
YA0863	СН3-	F_OCH ₃	Н	Q
YA0864	CH3-	OCH ₃ F—⟨ →	н	Q
YA0865	СН3-	OCH ₃	Н	Q
YA0866	СН3-	OCH ₃	Н	Q
YA0867	СН3-	OCH ₃	н	
YA0868	СН3-	OCH ₃	н	Q
YA0869	СН3-	H ₃ CQ F—	Н	Qu
YA0870	CH3-	H₃CO F	Н	
YA0871	CH3-	H ₃ CO_F	Н	
YA0872	CH3-	H₃CO-⟨=⟩F	Н	
YA0873	СН3~	H₃CO F	Н	
YA0874	СН3-	H₃CO-⟨}-	Н	
YA0875	СН3-	CI_OCH₃	н	Q
YA0876	CH3-		н	Qu

No.	R1	R2	R3	R4
YA0877	СН3-	OCH ₃	Н	Q
YA0878	СН3-	OCH ₃	Н	
YA0879	CH3-	CI—Ç—;	Н	Q
YA0880	СН3-	H₃CO CI	Н	
YA0881	CH3-	H₃CO_CI	Н	
YA0882	СН3-	CI H₃CO-⟨∑)—;	н	Qu

No.	R1	R2		
YA0883	СН3-	CI H ₃ CO	R3 H	R4
YA0884	СН3-	CI H ₃ CO-	н	Q
YA0885	CH3-	F_CH ₃	н	Q
YA0886	СН3-	CH ₃ F—⟨	Н	Q
YA0887	СН3-	CH₃ F	Н.	Q
YA0888	СН3-	CH₃ F	Н	Q
YA0889	СН3-	H₃C F—{}—{}	н	Q
YA0890	СН3-	H ₃ C	Н	
YA0891	СН3-	H ₃ C_F	Н	
YA0892	СН3-	H₃C-⟨SF	Н	
YA0893	СН3-	H₃C F	Н	
YA0894	СН3-	H₃C-⟨S);	н	Q
YA0895	CH3-	Br_OCH ₃	н	Q
YA0896	СН3-	OCH ₃	Н	Qu
YA0897	СН3-	OCH ₃ Br	Н	

No.	R1	R2	T Do	
YA0898	CH3-	OCH ₃ Br	R3 H	R4
YA0899	СН3-	H₃CO Br—	Н	Qx
YA0900	СН3-	H₃CO Br	Н	
YA0901	СН3-	H ₃ CO_Br	Н	
YA0902	CH3-	H ₃ CO	Н	Q
YA0903	CH3-	H ₃ CO	н	Q

No.	_ R1	R2	R3	
YA090	4 CH3-	Вқ	Н	R4
YA090	5 CH3-	H ₃ CO	Н	Q
YA090	3 CH3-	OCH₃	н	Q
YA0907	7 СН3-	CN-C→OCH ₃	н	Q
YA0908	СН3-	H ₃ CO >-N	н	
YA0909	СН3-	H₃CQ CN-C);	н	
YA0910	СН3-	CN COH3	Н	Q
YA0911	СН3-	F—F	н	Q
YA0912	CH3-	F—C—; F	Н	
YA0913	СН3-	H₃CO-⟨∑-} F	н	
YA0914	CH3-	OCH ₃ F—C—X OCH ₃	н	Q
YA0915	СН3-	OCH ₃ H ₃ CO-{_}-} OCH ₃	Н	Qu
YA0916	СН3-	CI CI	Н	
YA0917	СН3-	OCH₃ CI—CD—{ CI	н	Qu
YA0918	СН3-	H₃CO-⟨_}-}, CI	Н	Q

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No.	R1	R2	R3	R4
YA0919	CH3-	CI—(OCH ₃	Н	O.
YA0920	СН3-	OCH ₃ H ₃ CO-{\bigcip}_{\bigcip}_{\bigcip}	Н	
YA0921	CH3-	OCH ₃	н	Q
YA0922	CH3-	H ₃ CO	н	
YA0923	СН3-	H ₃ CO-{_}	Н	Q
YA0924	СН3-	OCH ₃ \t	н	Q

No.	R1	R2	R3	T DA
YA0925	СН3-	H ₃ CO	Н	R4
YA0926	СН3-	H3CO-{\(\sigma\)-\(\sigma\)^2	н	Qr
YA0927	СН3-	OCH ₃	Н	
YA0928	СН3-	H ₃ CO	н	
YA0929	СН3-	H₃CO-⟨_\	н	Qu
YA0930	СН3-	∅ - ⊘ -₁	Н	
YA0931	СН3-	₹	Н	
YA0932	СН3-	F-{_}-{_}-}	Н	
YA0933	CH3-		Н	
YA0934	CH3-	F	Н	Q
YA0935	CH3-	F-<->-\(\)	н	
YA0936	СН3-		н	
YA0937	CH3-		н	Q.
YA0938	СН3-	F-()-()	н	
YA0939	СН3-		н	

No.	R1	R2	R3	R4
YA0940	СН3-	CC	Н	Q
YA0941	СН3-	СН3-	н	L,
YA0942	СН3-	CH3CH2-	Н	l,
YA0943	СН3	^ \	H	Ŷ,
YA0944	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	Ŷ,
YA0945	СН3-	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	Ŷ,

No.	R1			•
		R2	R3	R4
YA094	6 CH3-		н	Ŷ,
YA094	7 CH3-	7	Н	Ŷ,
YA0948	3 СН3-	7	Н	Ŷ,
YA0949	СН3-	~~\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	Ŷ,
YA0950	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	Î,
YA0951	СН3-	Xx	н	Ů,
YA0952	СН3-	7	Н	Ů,
YA0953	СН3-	\\\\	Н	Ů,
YA0954	СН3-		н	<u>گ</u>
YA0955	СН3-	~~~\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	<u>گ</u>
YA0956	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Ŷ,
YA0957	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	Ŷ,
YA0958	СН3-		н	Å,
YA0959	CH3-	Q	Н	<u>گ</u>
YA0960	СН3-		Н	<u>گ</u>
YA0961	СН3-		н	ئى _
YA0962	СН3-	$\triangleright \rightarrow$	н	2,
YA0963	CH3-	\Diamond	н	Ŷ,
YA0964	СН3-	$\bigcirc \!$	н	Ŷ,
YA0965	СН3-	\bigcirc \downarrow 1	н	Ŷ,
YA0966	CH3-		н	Ŷ,

YA0967 CH3- H J YA0968 CH3- H J YA0969 CH3- H J YA0970 CH3- H J YA0971 CH3- H J YA0972 CH3- H J YA0973 CH3- H J YA0974 CH3- CH3- H J YA0975 CH3- H J H YA0976 CH3- CH- H J YA0977 CH3- CH- H J YA0978 CH3- CH- H J YA0980 CH3- CH- H J YA0981 CH3- BF- H J YA0982 CH3- BF- H J YA0984 CH3- H J H YA0985 CH3- H J H YA0986 CH3- H J<	No.	R1	R2	R3	
YA0969 CH3- CH3- H Lyanger YA0970 CH3- H Lyanger H Lyanger YA0971 CH3- H Lyanger H Lyanger YA0972 CH3- CH3- H Lyanger H Lyanger YA0973 CH3- CH3- H Lyanger H Lyanger <td></td> <td></td> <td></td> <td></td> <td></td>					
YA0970 CH3- H J YA0971 CH3- H J YA0972 CH3- H J YA0973 CH3- H J YA0974 CH3- H J YA0975 CH3- CH3- H J YA0976 CH3- CH3- H J YA0977 CH3- CH3- H J YA0978 CH3- CH3- H J YA0980 CH3- J H J YA0981 CH3- J H J YA0982 CH3- J H J YA0984 CH3- J H J YA0985 CH3- J H J YA0986 CH3- J H J	YA0968	СН3-		н	ب
YA0971 CH3- H Image: CH3-	YA0969	СН3-	⊘ m{	Н	<u>گ</u>
YA0972 CH3- F H Image: CH3- H Im	YA0970	СН3-	F	Н	I *
YA0972 CH3- F H Image: CH3- H Im	YA0971	CH3-	F	Н	ا ا
YA0974 CH3- CI H Image: Control of the control of	YA0972	СН3-	F-()	Н	Î,
YA0975 CH3- CI H Image: CH3- Image: CH3- H Image: CH3- Ima	YA0973	СН3-	F-{}-	Н) J
YA0975 CH3- CH3- H J YA0976 CH3- CH3- H J YA0977 CH3- CH3- H J YA0978 CH3- CH3- H J YA0979 CH3- CH3- H J YA0980 CH3- Br H J YA0981 CH3- Br H J YA0982 CH3- Br H J YA0983 CH3- Br H J YA0984 CH3- H J J YA0986 CH3- J H J YA0986 CH3- J H J	YA0974	СН3-	F-()···(н	Ŷ,
YA0976 CH3-	YA0975	СН3-	CI	н	2,
YA0978 CH3-	YA0976	СН3-	CI	Н	Ŷ,
YA0979 CH3- CH- H Image: CH3- H Image: CH3- H Image: CH3- H Image: CH3- Image: CH3- H Image: CH3- Image: CH3- H Image: CH3- Image: CH3- <td>YA0977</td> <td>CH3-</td> <td>C</td> <td>н</td> <td>Ŷ,</td>	YA0977	CH3-	C 	н	Ŷ,
YA0980 CH3- Br	YA0978	СН3-	CH	н	Ŷ,
YA0980 CH3- H Jr YA0981 CH3- Br H Jr YA0982 CH3- Br H Jr YA0983 CH3- Br H Jr YA0984 CH3- Br H Jr YA0985 CH3- H Jr YA0986 CH3- H Jr YA0986 CH3- H Jr	YA0979	СН3-		н	گې
YA0981 CH3- H Image: CH3-	YA0980	СН3-	Br	н	Ŷ,
YA0983 CH3- Br H Image: CH3- Image: CH3- H Image: CH3- Image: CH3- H Image: CH3- Image: CH3- <td>YA0981</td> <td>CH3</td> <td>Br.</td> <td>н</td> <td>Ŷ,</td>	YA0981	CH3	Br.	н	Ŷ,
YA0983 CH3- Br H Image: CH3- Image: CH3- H Image: CH3- Image: CH3- H Image: CH3- Image: CH3- <td>YA0982</td> <td>CH3-</td> <td>Br-{_}-{</td> <td>н</td> <td>Î,</td>	YA0982	CH3-	Br-{_}-{	н	Î,
YA0985 CH3- H P	YA0983	СН3-	Br—	н	
YA0986 CH3- H	YA0984	СН3-	Br—《	Н	
\/,	YA0985	CH3-	<u></u> .	н	<u>گ</u>
	YA0986	CH3-	<u></u>	н	Ŷ,
YA0987 CH3- H	YA0987	СН3-	H	н	<u>گ</u> ہ

No.	R1	R2	R3	R4
YA0988	CH3-	CH₃	Н	<u>گ</u>
YA0989	СН3-	H ₃ C	Н	Ŷ,
YA0990	CH3-	H ₃ C-{_}	н	Ŷ,
YA0991	СН3-	C ₂ H ₅ —{}	н	<u>گ</u>
YA0992	СН3-	n-C ₃ H ₇ {}	Н	<u>گ</u>
YA0993	СН3-	n-C ₄ H ₉ {}{	Н	گې
YA0994	СН3-	OH OH	н	گ _ه
YA0995	СН3-	HO —	н	Ŷ,
YA0996	СН3-	HO-{_}	н	<u>گ</u>
YA0997	СН3-	OCH ₃	Н	کې
YA0998	СН3		Н	Ŷ,
YA0999	CH3-	H₃CO- { _}-{	н	Ŷ,
YA1000	CH3-	H₃CO-{_}	н	Ŷ,
YA1001	CH3-	H₃CO-⟨>⊪∮	Н	<u>گ</u>
YA1002	CH3-	OC ₂ H ₅	Н	2,
YA1003	CH3-	C ₂ H ₅ O	н	2,
YA1004	СН3-	C ₂ H ₅ O-{}-{	н	Ŷ,
YA1005	CH3-	n-C ₃ H ₇ O-{	Н	Ŷ,
YA1006	CH3-	n-C ₄ H ₉ O-	Н	<u>گ</u>
YA1007	СН3-	NO ₂	Н	<u></u>
YA1008	CH3-	O ₂ N	Н	٨,

No. R1 R2 R3 F YA1009 CH3- O ₂ N- H	₹4
YA1010 CH3- CN H	
YA1011 CH3- NC H	
YA1012 CH3- NC- H	
YA1013 CH3- CF3 H. P.	
YA1014 CH3- F3C H	
YA1015 CH3- F ₃ C-\(\)	
YA1016 CH3- COOH H	
YA1017 CH3- HOOC H	
YA1018 CH3- HOOC- H	
YA1019 CH3- CO ₂ Me H	
YA1020 CH3- MeO ₂ C H	
YA1021 CH3- MeO ₂ C-_\{\} H \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
YA1022 CH3- CO ₂ Et H	
YA1023 CH3- EtO ₂ C H	
YA1024 CH3- EtO ₂ C-{ H	
YA1025 CH3- SME H	
YA1026 CH3- MeS H	
YA1027 CH3- MeS-(
YA1028 CH3- SO ₂ Me H	
YA1029 CH3- MeO ₂ S H	

No.	. R1	R2		
YA1030			R3 H	R4
YA1031	СН3-	NH ₂	Н	l,
YA1032	снз-	H ₂ N	Н	Î,
YA1033	СН3-		Н	Ů,
YA1034	СН3-		Н	ب
YA1035	СН3-	Me ₂ N	Н	Ů,
YA1036	СН3-	Me ₂ N-	н	Ŷ,
YA1037	CH3-	CN-	Н	2,
YA1038	СН3-	(N-(_)	Н	Ĵ,
YA1039	СН3-	CN-(Н	<u>گ</u>
YA1040	СН3-		н	الم الم
YA1041	СН3-		Н	Ů,
YA1042	СН3-	\(\rangle \rangle \ra	Н	٩
YA1043	СН3-		Н	ب
YA1044	CH3-	< <u></u> √N-	н	ب
YA1045	СН3-		. н	Ŷ
YA1046	СН3-	H3CN N	. н	Ů,
YA1047	СН3-	H3CN N-C	Н	Ů,
YA1048	CH3-	H ₃ CN_N-{}-{	н	
YA1049	СН3-	H ₃ C_CH ₃	н	Ŷ,
YA1050	СН3-	CH ₃ H ₃ C-\bigcorr	Н	Î,
			 -	

No.	R1	R2	R3	D4
YA1051	CH3-	CH ₃ H₃C	Н	R4
YA1052	СН3-	CH ₃ CH ₃	Н	<u>گ</u>
YA1053	СН3-	H ₃ C H ₃ C-{}-{}	Н	l,
YA1054	СН3-	H ₃ C H ₃ C	Н	<u>گ</u>
YA1055	СН3-	F_F	Н	Ŷ,
YA1056	СН3-	F—∰	Н	2,
YA1057	CH3-	Ş F	н	٤,
YA1058	CH3-	Ç F F	Н	٤,
YA1059	СН3-	F—————————————————————————————————————	Н	<u></u>
YA1060	СН3-	F F	Н	L,
YA1061	СН3-	CI_CI	н.	l,
YA1062	СН3	cı—⟨=}	Н	Ŷ,
YA1063	. СН3-	CI CI	Н	Ŷ,
YA1064	СН3-	CI CI	Н	Ŷ,

No.	R1	R2	R3	R4
YA1065	СН3-	CI—	Н	٤,
YA1066	CH3-	CI	н	Ŷ,
YA1067	СН3-	H₃CO_OCH₃	Н	l,
YA1068	CH3-	OCH ₃ H ₃ CO-√→	Н	l,
YA1069	CH3-	OCH ₃ H ₃ CO	н	L,
YA1070	CH3-	OCH ₃ OCH ₃	Н	Ĵ,
YA1071	СН3-	H₃CQ H₃CO-⟨¯¯}→	н	Ŷ,

No.	R1	R2	R3	R4
YA1072	СН3-	H ₃ CQ H ₃ CO	Н	L _y
YA1073	СН3-	F_OCH ₃	н	Ŷ,
YA1074	СН3-	OCH₃ F———	н	Ŷ,
YA1075	СН3-	OCH ₃	н	l,
YA1076	СН3-	OCH ₃ F—⟨_> · {	н	2,
YA1077	CH3-	OCH ₃	н	L,
YA1078	CH3-	OCH₃ → F	н	<u>گ</u>
YA1079	СН3~	H₃CO F—(—)—{	н	Ŷ,
YA1080	СН3-	H₃CQ F	Н .	Î,
YA1081	СН3-	H₃CO_F	н	Ŷ,
YA1082	СН3-	H₃CO-⟨¯¯́}→	н	2,
YA1083	СН3-	H₃CO F	н	L,
YA1084	СН3-	F_ H₃CO-⟨¯_}~-}	н	گې
YA1085	СН3-	CI_OCH₃	H	L,

No.	R1	R2	R3	R4
YA1086	СН3~	CI—(C)—{	Н	L,
YA1087	СН3-	OCH₃ CI	Н	گہ
YA1088	СН3-	OCH₃ CI	Н	Ŷ,
YA1089	СН3-	H₃CQ CI—	н	Ŷ,
YA1090	CH3-	H₃CQ CI	Н	L,
YA1091	CH3-	H₃CO_CI	н	گ,
YA1092	СН3-	CI H₃CO-⟨∑}→	н	Ŷ,

No.	R1	R2	R3	R4
YA1093	CH3-	CI CI H₃CO	н	2,
YA1094	СН3-	CI H₃CO-⟨¯¯){	Н	١,
YA1095	СН3-	F_CH₃	Н	L,
YA1096	СН3-	CH ₃	н	l,
YA1097	СН3-	CH₃ F	Н	l,
YA1098	CH3-	CH₃ F	н	L,
YA1099	СН3-	H ₃ C F—	Н	١,
YA1100	СН3-	H₃C F	Н	L,
YA1101	снз-	H₃C_F	н	<u>گ</u> ہ
YA1102	CH3-	H₃C-⟨¯_ F	н	l,
YA1103	СН3-	H₃C F	н	L,
YA1104	СН3-	H ₃ C-⟨}	Н	Ŷ,
YA1105	СН3-	Br_OCH₃	Н	Ŷ,
YA1106	СН3-	OCH ₃ Br—⟨□⟩	Н	Ŷ,

No.	R1	R2	R3	R4
YA1107	СН3-	OCH ₃	Н	<u></u>
YA1108	СН3-	OCH ₃ Br	Н	Ŷ,
YA1109	СН3-	H₃CQ Br—	н	Ŷ,
YA1110	CH3-	H ₃ CO Br	н	L,
YA1111	CH3-	H₃CO_Br	Н	l,
YA1112	СН3~	H₃CO-√SH	Н	گ,
YA1113	СН3-	H ₃ CO	н	Ŷ,

No.	R1	R2	R3	7
YA1114		Br, H ₃ CO-	Н	R4
YA1115	СН3-	H₃CQ >-	Н	l,
YA1116	СН3-	OCH ₃	Н	, L _y
YA1117	СН3-	CN-⟨_>och₃	Н	l,
YA1118	СН3-	H₃CO →	Н	<u>گ</u>
YA1119	СН3~	H ₃ CO	Н	Ŷ,
YA1120	CH3	OCH³	н	Ŷ,
YA1121	СН3-	F——	н	L,
YA1122	СН3-	OCH₃ F—⟨↓; F	н	L,
YA1123	СН3-	H ₃ CO-CF _F	н	Ŷ,
YA1124	CH3-	OCH ₃ F—C—> OCH ₃	н	Ŷ,
YA1125	СН3-	OCH ₃ H₃CO-⟨_ <mark>></mark> -} OCH ₃	н	Ŷ,
YA1126	СН3-	CI—CI	н	Ŷ,
YA1127	СН3-		н	l,

No.	R1	R2	R3	R4
YA1128	СН3-	CI H₃CO-⟨∑→{ CI	Н	١,
YA1129	СН3-	OCH ₃ OCH ₃	Н	l,
YA1130	CH3-	OCH ₃ H ₃ CO-{_}} OCH ₃	Н	٤,
YA1131	CH3-	OCH3	Н	L,
YA1132	CH3-	H ₃ CO	Н	L,
YA1133	СН3-	H ₃ CO-{	Н	Ŷ,
YA1134	СН3-	OCH ₃ }t	н	<u>گ</u>

No.	R1	R2	R3	D4
YA1135	СН3-	H ₃ CO	Н	R4
YA1136	СН3-	H ₃ CO-{	Н	l,
YA1137	СН3-	OCH ₃	н	l,
YA1138	СН3-	H ₃ CO	н	l,
YA1139	СН3-	H ₃ CO-{____\	Н	Î,
YA1140	СН3-	F-()-1	Н	گہ
YA1141	СН3-	F	Н	L,
YA1142	CH3-	F-{\}-{\}-{\}-	Н	٤,
YA1143	CH3-		Н	L,
YA1144	СН3-	F.	Н	. L _y
YA1145	СН3-	F-(-)-(-) ^{\}}	Н	L,
YA1146	СН3-		н	Ŷ,
YA1147	CH3-	F	н	Ŷ,
YA1148	СН3-	F-Q-Q	н	l,

1	No.	R1	R2	R3	
	YA1149	СН3-		Н	R4
	YA1150	СН3-	CCC'r	Н	Ŷ,
	YA1151	CH3-		н	١,
	YA1152	CH3-	() ju	н	l,
	YA1153	СН3-	Ç.	н	Ŷ,
	YA1154	СН3-	CH3-	СН3-	н
	YA1155	СН3-	СНЗСН2-	CH3-	Н

ı	No.	R1			
- 1	110.		R2	R3	R4
	YA1156	CH3-	. / \	СН3-	н
	YA1157	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	СН3-	Н
	YA1158	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	СН3-	Н
	YA1159	СН3-	\r	CH3-	н
	YA1160	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	CH3~	Н
	YA1161	СН3-	7	СН3-	Н
	YA1162	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	СН3-	Н
	YA1163	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	СН3-	н
	YA1164	СН3-	X	СН3-	Н
	YA1165	СН3-	7	СН3-	Н
Ŀ	YA1166	СН3-	\\\\	СН3-	н
	YA1167	снз-		СН3-	н
	YA1168	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	СН3-	н
,	YA1169	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	СН3-	Н
,	YA1170	CH3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	CH3-	Н
_	/A1171	CH3-		СН3-	Н
Υ	'A1172	CH3-	Q	CH3-	Н
Y	'A1173	CH3-		СН3-	Н
Υ	A1174	CH3-		СН3-	. Н
Y	A1175	CH3-	\triangleright	СН3-	Н
Y.	A1176	CH3-	\Diamond -I	CH3-	Н
				L	

No.	. R1	R2		
			R3	R4
YA1177	CH3-	1	CH3-	Н
YA1178	CH3-		СН3-	Н
YA1179	СН3-		СН3-	Н
YA1180	СН3-		СН3-	Н
YA1181	СН3-		СН3-	Н
YA1182	СН3-	⊘ m{	СН3-	Н
YA1183	СН3-	₽	СН3-	н
YA1184	снз-		СН3-	Н
YA1185	СН3-	F-(СН3-	Н
YA1186	СН3-		СН3-	н
YA1187	CH3-	F—_\mathreal (1)	СН3-	н
YA1188	СН3-	CI	СН3-	. н
YA1189	снз-	CI	СН3-	Н
YA1190	CH3-	C⊢ ()~-{	СН3-	Н
YA1191	СН3-	c (>-	СН3-	
YA1192	CH3-	CH	СН3-	н
YA1193	СН3-	Br	CH3-	Н
YA1194	CH3	Br	СН3-	н
YA1195	СН3~	Br—{_}	СН3-	н
YA1196	СН3-	Br- (){	СН3-	Н
YA1197	СН3~	Br—⟨	CH3-	Н

_No.	R1	R2		
VA1100			R3	R4
YA1198	CH3-		CH3-	н
YA1199	СН3-	├	CH3-	Н
YA1200	СН3-		СН3-	Н
YA1201	СН3-	CH ₃	СН3-	Н
YA1202	CH3-	H ₃ C	СН3-	Н
YA1203	СН3-	H ₃ C-{{}{{1}}	CH3-	н
YA1204	СН3-	C ₂ H ₅ -{_}-{	CH3-	Н
YA1205	СН3-	n-C ₃ H ₇ -	СН3-	Н
YA1206	СН3-	n-C ₄ H ₉ {}{	CH3-	Н
YA1207	СН3-	OH OH	СН3-	Н
YA1208	СН3-	HO —	СН3-	н
YA1209	CH3-	HO-{}	СН3-	Н
YA1210	СН3-	OCH ₃	СН3-	Н
YA1211	CH3-	H ₃ CO	СН3-	· H
YA1212	CH3-	H ₃ CO-{	СН3-	
YA1213	CH3-	H₃CO-{_}	СН3-	Н
YA1214	СН3-	H₃CO-⟨⟩ı∮	СН3-	Н
YA1215	CH3-	OC ₂ H ₅	СН3-	Н
YA1216	СН3-	C ₂ H ₅ O	СН3-	Н
YA1217	CH3-	C ₂ H ₅ O-{	СН3	Н
YA1218	СН3-	n-C₃H ₇ O-∕{_}}–{	СН3-	н

YA1219 CH3- PC4H9O CH3- H YA1220 CH3- NO2 (H3-) CH3- H YA1221 CH3- CH3- H H YA1222 CH3- O2N- CH3- H YA1223 CH3- CN CH3- H YA1224 CH3- NC CH3- H YA1225 CH3- NC CH3- H YA1226 CH3- NC CH3- H YA1227 CH3- CH3- H H YA1228 CH3- P2N CH3- H YA1229 CH3- NMe2 CH3- H YA1230 CH3- CH3- H YA1231 CH3- Me2N CH3- H YA1232 CH3- CH3- H YA1233 CH3- CH3- H YA1234 CH3- CH3- H YA1235 CH3- CH3- H YA1236 CH3- CH3- H YA1237	No.	. R1			
YA1220 CH3- CH3- H YA1221 CH3- CH3- H YA1222 CH3- O2N- CH3- H YA1223 CH3- CN CH3- H YA1223 CH3- CH3- H H YA1224 CH3- CH3- CH3- H YA1225 CH3- NC- CH3- H YA1226 CH3- CH3- H H YA1227 CH3- CH3- H H YA1228 CH3- H2N- CH3- H YA1229 CH3- NMe2N- CH3- H YA1230 CH3- CH3- H YA1231 CH3- N- CH3- H YA1232 CH3- N- CH3- H YA1233 CH3- N- CH3- H YA1234 CH3- N- CH3- H YA1235 CH3- N- CH3- H YA1238 CH3- N- CH3- H	140.	- 171	R2	R3	R4
YA1220 CH3- CH3- H YA1221 CH3- O2N- CH3- H YA1222 CH3- O2N- CH3- H YA1223 CH3- CH3- H H YA1224 CH3- CH3- H H YA1225 CH3- NC- CH3- H YA1226 CH3- NH2 CH3- H YA1227 CH3- H2N- CH3- H YA1228 CH3- H2N- CH3- H YA1228 CH3- NMe2N- CH3- H YA1230 CH3- CH3- H H YA1231 CH3- Me2N- CH3- H H YA1232 CH3- CH3- H H H YA1233 CH3- N- CH3- H H YA1234 CH3- N- CH3- H H YA1236 CH3- N- CH3- H H YA1238 CH3- N- CH3- <t< td=""><td>YA1219</td><td>CH3-</td><td></td><td>СН3~</td><td>н</td></t<>	YA1219	CH3-		СН3~	н
YA1221 CH3- CH3- H YA1222 CH3- O2N- CH3- H YA1223 CH3- CN CH3- H YA1224 CH3- CH3- H H YA1225 CH3- NC- CH3- H YA1226 CH3- NH2 CH3- H YA1227 CH3- H2N- CH3- H YA1228 CH3- H2N- CH3- H YA1229 CH3- H2N- CH3- H YA1230 CH3- CH3- H YA1231 CH3- CH3- H YA1232 CH3- CH3- H YA1233 CH3- N- CH3- H YA1234 CH3- N- CH3- H YA1235 CH3- N- CH3- H YA1236 CH3- N- CH3- H YA1238 CH3- N- CH3- H YA1239 CH3- N- CH3- H <td>YA1220</td> <td>СН3-</td> <td>√-{</td> <td>CH3-</td> <td>н</td>	YA1220	СН3-	√ -{	CH3-	н
YA1223 CH3- CN CH3- H YA1224 CH3- NC CH3- H YA1225 CH3- NC CH3- H YA1226 CH3- NH2 CH3- H YA1227 CH3- H2N CH3- H YA1228 CH3- H2N CH3- H YA1229 CH3- NMe2 CH3- H YA1230 CH3- CH3- H YA1231 CH3- Me2N CH3- H YA1232 CH3- N CH3- H YA1233 CH3- N CH3- H YA1234 CH3- N CH3- H YA1235 CH3- N CH3- H YA1236 CH3- N CH3- H YA1237 CH3- H CH3- H YA1238 CH3- N CH3- H YA1239 CH2- Q N N CH3- H	YA1221	снз-	O ₂ N	CH3-	Н
YA1223 CH3- H YA1224 CH3- NC- CH3- H YA1225 CH3- NC- CH3- H YA1226 CH3- NH2- CH3- H YA1227 CH3- H2N- CH3- H YA1228 CH3- H2N- CH3- H YA1229 CH3- NMe2- CH3- H YA1230 CH3- H CH3- H YA1231 CH3- Me2N- CH3- H YA1232 CH3- N- CH3- H YA1233 CH3- N- CH3- H YA1234 CH3- N- CH3- H YA1236 CH3- N- CH3- H YA1237 CH3- N- CH3- H YA1238 CH3- N- CH3- H	YA1222	СН3-		CH3	н
YA1224 CH3- CH3- H YA1225 CH3- NC- CH3- H YA1226 CH3- NH2 CH3- H YA1227 CH3- H-2N- CH3- H YA1228 CH3- H2N- CH3- H YA1229 CH3- NMe2N- CH3- H YA1230 CH3- H CH3- H YA1231 CH3- Me2N- CH3- H YA1232 CH3- N- CH3- H YA1233 CH3- N- CH3- H YA1234 CH3- N- CH3- H YA1235 CH3- N- CH3- H YA1236 CH3- N- CH3- H YA1238 CH3- N- CH3- H	YA1223	CH3-		СН3-	Н
YA1226 CH3- NH2 CH3- H YA1227 CH3- H H YA1227 CH3- H YA1228 CH3- H2N CH3- H H YA1229 CH3- H H YA1230 CH3- H YA1230 CH3- Me2N CH3- H YA1231 CH3- Me2N CH3- H YA1232 CH3- CH3- H H YA1233 CH3- N- CH3- H YA1234 CH3- N- CH3- H YA1235 CH3- N- CH3- H YA1237 CH3- N- CH3- H YA1238 CH3- N- CH3- H	YA1224	CH3-	NC _\{	СН3-	Н
YA1226 CH3- H YA1227 CH3- H2N CH3- H YA1228 CH3- H2N CH3- H YA1229 CH3- CH3- H H YA1230 CH3- CH3- H H YA1231 CH3- CH3- H H YA1232 CH3- CH3- CH3- H YA1233 CH3- CH3- H CH3- H YA1234 CH3- CH3- H CH3- H YA1235 CH3- N- CH3- H YA1237 CH3- N- CH3- H YA1238 CH3- N- CH3- H	YA1225	СН3-	,	СН3-	Н
YA1227 CH3- H YA1228 CH3- H2N- CH3- H YA1229 CH3- NMe2 CH3- H YA1230 CH3- H H YA1231 CH3- Me2N- CH3- H YA1231 CH3- Me2N- CH3- H YA1232 CH3- CH3- H H YA1233 CH3- N- CH3- H YA1234 CH3- N- CH3- H YA1235 CH3- N- CH3- H YA1237 CH3- N- CH3- H YA1238 CH3- N- CH3- H	YA1226	CH3-		СН3-	н
YA1229 CH3- NMe₂ (CH3-) H YA1230 CH3- Me₂ (N) CH3- H YA1231 CH3- Me₂ (N) CH3- H YA1232 CH3- CH3- H YA1233 CH3- CH3- H YA1234 CH3- CH3- H YA1235 CH3- CH3- H YA1236 CH3- CH3- H YA1237 CH3- CH3- H YA1238 CH3- N- CH3- H YA1239 CH3- N- CH3- H	YA1227	СН3-	H ₂ N	СН3-	н
YA1239 CH3- H YA1230 CH3- H YA1231 CH3- H YA1232 CH3- CH3- H YA1233 CH3- CH3- H YA1234 CH3- CH3- H YA1235 CH3- CH3- H YA1236 CH3- CH3- H YA1237 CH3- CH3- H YA1238 CH3- CH3- H	YA1228	СН3-		СН3-	н
YA1230 CH3- CH3- H YA1231 CH3- Me₂N- CH3- H YA1232 CH3- CH3- CH3- H YA1233 CH3- CH3- CH3- H YA1234 CH3- CH3- CH3- H YA1235 CH3- CH3- CH3- H YA1236 CH3- CH3- H CH3- H YA1237 CH3- CH3- CH3- H YA1238 CH3- Q N- CH3- H	YA1229	СН3-		СН3-	Н
YA1232 CH3- CH3- H YA1233 CH3- CH3- H YA1234 CH3- CH3- H YA1235 CH3- CH3- H YA1236 CH3- CH3- H YA1237 CH3- CH3- H YA1238 CH3- CH3- CH3- H YA1239 CH3- CH3- H	YA1230	СН3-	Me ₂ N	CH3-	Н
YA1233 CH3-	YA1231	СН3-	Me ₂ N-(СН3-	Н
YA1233 CH3- CH3- H YA1234 CH3- CH3- H YA1235 CH3- CH3- H YA1236 CH3- CH3- H YA1237 CH3- CH3- H YA1238 CH3- CH3- H YA1239 CH3- CH3- H	YA1232	CH3-		СН3-	Н
YA1235 CH3- CH3- H YA1236 CH3- CH3- H YA1237 CH3- CH3- H YA1238 CH3- CH3- CH3- H	YA1233	СН3~		СН3-	l 1
YA1236 CH3- N- CH3- H YA1237 CH3- CH3- H YA1238 CH3- CH3- CH3- H	YA1234	СН3-		СН3-	н
YA1237 CH3- CH3- H YA1238 CH3- CH3- H YA1239 CH3- CH3- H	YA1235	CH3-		СН3-	Н
YA1238 CH3- CH3- H	YA1236	CH3-	(N-()	СН3-	н
YA1239 CH2- Q N-()	YA1237	CH3-	\(\n^\)\(\)	СН3-	н
YA1239 CH3- CH3- H	YA1238	СН3-	○ N- ◇	СН3-	Н
	YA1239	CH3-	○ N - < <u>></u>	СН3-	Н

No.	R1	700		
110.		R2	R3	R4
YA124	0 СН3-	(_)N-(_}_;	CH3-	н
YA124	1 CH3-	H ₃ CN N-	СН3-	Н
YA124	2 CH3-	H ₃ CN N-	CH3-	Н
YA1243	CH3-	H3CN N-()-{	СН3-	Н
YA1244	CH3-	OCH ₃ F—◯→	СН3-	н
YA1245	СН3-		СН3-	н
YA1246	СН3-	OCH ₃	СН3-	н
YA1247	CH3-		СН3-	н
YA1248	CH3-		СН3-	Н
YA1249	CH3-	СН3-	н	СН3-
YA1250	СН3-	CH3CH2-	Н	СН3-
YA1251	СН3-	∼ `\	Н	СН3-
YA1252	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	CH3-
YA1253	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	СН3-
YA1254	CH3-	L.	Н	CH3-
YA1255	снз-	~~`	н	CH3-
YA1256	CH3-	7	н	СН3-
YA1257	CH3-	^ ^ \	н	CH3-
YA1258	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	CH3-
YA1259	CH3-	Xx	н	СН3-
YA1260	CH3-	7	н	CH3-

No.	. R1	R2		
YA120		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	R3	R4
	or or or		Н	CH3-
YA126	62 CH3-		Н	CH3-
YA126	3 CH3-	~~~\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	CH3-
YA126	4 СН3-	Y~~~	Н	СН3-
YA126	5 СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	CH3-
YA126	6 СН3-		н	CH3-
YA126	7 СН3-		н	CH3-
YA1268	CH3-		Н	СН3-
YA1269	СН3-	Qui	н	СН3-
YA1270	СН3-	<u></u>	Н	СН3-
YA1271	СН3-	\Diamond	Н	CH3-
YA1272	CH3-		н	СН3-
YA1273	снз-		н	CH3-
YA1274	CH3-		Н	CH3-
YA1275	CH3-	◯ −₁	Н	CH3-
YA1276	CH3-		н	CH3-
YA1277	СН3-		н	СН3-
YA1278	CH3-	△	Н	CH3-
YA1279	СН3-	_	Н	CH3
YA1280	СН3-	F-(Н	CH3-
YA1281	снз-		Н	СН3-

No.	. R1	R2		T
YA128	2 CH2		R3	R4
14126	2 CH3-	CI	Н	CH3-
YA1283	3 CH3-	CI	н	СН3-
YA1284	CH3-		н	СН3-
YA1285	СН3-	CH{}	н	CH3-
YA1286	снз-	CH	н	CH3-
YA1287	СН3-	CI—(Н	CH3-
YA1288	СН3-	Br ↓	Н	СН3-
YA1289	СН3-	Br.	Н	СН3-
YA1290	СН3–	Br—{	Н	СН3-
YA1291	СН3-	Br—{}	н	СН3-
YA1292	СН3-	Br—{	н	CH3-
YA1293	СН3-		н	СН3-
YA1294	СН3-		н	СН3-
YA1295	CH3-		Н	CH3-
YA1296	CH3-	CH ₃	н	CH3-
YA1297	СН3~		Н	CH3-
YA1298	СН3-	H ₃ C-{}_{	. Н	CH3-
YA1299	CH3-	C ₂ H ₅ -{}{	н	СН3-
YA1300	CH3-	n-C ₃ H ₇ {}{}	н	СН3-
YA1301	СН3	n-C ₄ H ₉ -{_}	н	СН3-
YA1302	СН3-	ОН	н	СН3-

YA1303 CH3- HO H CH3- YA1304 CH3- HO H CH3- YA1305 CH3- H3CO H CH3- YA1306 CH3- H3CO H CH3- YA1307 CH3- H3CO H CH3- YA1308 CH3- H3CO H CH3- YA1309 CH3- H3CO H CH3- YA1310 CH3- H3CO H CH3- YA1311 CH3- H3CO H CH3- YA1310 CH3- H3CO H CH3- YA1311 CH3- H CH3- YA1311 CH3- C2H5O H CH3- YA1312 CH3- C2H5O H CH3- YA1314 CH3- PC3H5O H CH3- YA1314 CH3- PC4H9O H CH3- YA1316 CH3- PC4H9O H CH3-	No.	R1	R2		
YA1304 CH3- HO → I H CH3- YA1305 CH3- QCH3 H CH3- YA1306 CH3- H3CO → I H CH3- YA1307 CH3- H3CO → I H CH3- YA1308 CH3- H3CO → I H CH3- YA1309 CH3- H3CO → I H CH3- YA1310 CH3- H3CO → I H CH3- YA1310 CH3- H3CO → I H CH3- YA1310 CH3- H3CO → I H CH3- YA1311 CH3- H3CO → I H CH3- YA1311 CH3- CH3- H CH3- YA1311 CH3- CH3- H CH3- YA1313 CH3- CH4- H CH3- YA1315 CH3- H CH3- YA1316 CH3- H CH3- YA1318 CH3- H CH3- YA1320 CH3- NC → I H CH3- YA1321 CH3-	VA120		HO	R3	R4
YA1305 CH3- OCH3	TA130	3 CH3-		Н	, снз–
YA1306 CH3- H CH3- YA1306 CH3- H3CO H CH3- YA1307 CH3- H3CO H CH3- YA1308 CH3- H3CO H CH3- YA1309 CH3- H3CO H CH3- YA1310 CH3- H CH3- YA1311 CH3- H CH3- YA1311 CH3- CH3- H CH3- YA1312 CH3- C2H5O H CH3- YA1312 CH3- C2H5O H CH3- YA1313 CH3- CH3-O H CH3- YA1314 CH3- CH3-O H CH3- YA1315 CH3- NO2 H CH3- YA1316 CH3- H CH3- YA1318 CH3- H CH3- YA1320 CH3- NC H CH3- YA1321 CH3- H CH3- <td>YA130</td> <td>4 CH3-</td> <td></td> <td>Н</td> <td>CH3-</td>	YA130	4 CH3-		Н	CH3-
YA1307 CH3- H3CO H CH3- YA1308 CH3- H3CO H CH3- YA1308 CH3- H3CO H CH3- YA1309 CH3- H3CO H CH3- YA1310 CH3- H CH3- YA1311 CH3- C2H5O H CH3- YA1312 CH3- C2H5O H CH3- YA1312 CH3- C2H5O H CH3- YA1313 CH3- C2H5O H CH3- YA1314 CH3- CH3- H CH3- YA1315 CH3- CH3- H CH3- YA1316 CH3- CH3- H CH3- YA1317 CH3- CN H CH3- YA1318 CH3- H CH3- YA1320 CH3- NC H CH3- YA1321 CH3- H2N H CH3- YA1322	YA130	5 CH3-		Н	СН3-
YA1308 CH3- H3CO H CH3- YA1309 CH3- H3CO H CH3- YA1310 CH3- H CH3- YA1311 CH3- C2H5O H CH3- YA1312 CH3- C2H5O H CH3- YA1312 CH3- C2H5O H CH3- YA1312 CH3- C2H5O H CH3- YA1313 CH3- C2H5O H CH3- YA1314 CH3- CH3- H CH3- YA1315 CH3- NO2 H CH3- YA1316 CH3- NO2 H CH3- YA1316 CH3- CH3- H CH3- YA1318 CH3- CN H CH3- YA1320 CH3- NC H CH3- YA1321 CH3- H CH3- YA1323 CH3- H CH3-	YA1306	6 CH3-	H ₃ CO	н	СН3-
YA1309 CH3- H3CO H CH3- YA1310 CH3- OC2H5 H CH3- YA1311 CH3- C2H5O H CH3- YA1312 CH3- C2H5O H CH3- YA1313 CH3- C-2H5O H CH3- YA1313 CH3- C-2H5O H CH3- YA1314 CH3- CH3- H CH3- YA1315 CH3- NO2 H CH3- YA1316 CH3- NO2 H CH3- YA1317 CH3- O2N H CH3- YA1318 CH3- CN H CH3- YA1320 CH3- NC H CH3- YA1321 CH3- NH2 H CH3- YA1323 CH3- H2N H CH3-	YA1307	снз-	H ₃ CO-{}-{	Н	CH3-
YA1310 CH3- CH3- H CH3- YA1311 CH3- C2H5O H CH3- YA1312 CH3- C2H5O H CH3- YA1313 CH3- C2H5O H CH3- YA1313 CH3- CH3- H CH3- YA1314 CH3- CH3- H CH3- YA1315 CH3- NO2 H CH3- YA1316 CH3- CH3- H CH3- YA1317 CH3- CN H CH3- YA1318 CH3- CH3- H CH3- YA1320 CH3- NC- H CH3- YA1321 CH3- H2N- H CH3- YA1323 CH3- H2N- H CH3-	YA1308	СН3-	H₃CO-{\}_{\}	Н	CH3-
YA1311 CH3- CH3- H CH3- YA1311 CH3- C2H5O H CH3- YA1312 CH3- C2H5O H CH3- YA1313 CH3- C2H5O H CH3- YA1313 CH3- CH3- H CH3- YA1314 CH3- CH3- H CH3- YA1315 CH3- CH3- H CH3- YA1316 CH3- CH3- H CH3- YA1317 CH3- CH3- H CH3- YA1318 CH3- CH3- H CH3- YA1320 CH3- NC- H CH3- YA1321 CH3- H2N- H CH3- YA1323 CH3- H2N- H CH3-	YA1309	СН3-		н	СН3-
YA1311 CH3- C₂H₅O- H CH3- YA1312 CH3- C₂H₅O- H CH3- YA1313 CH3- n-C₃H₂O- H CH3- YA1314 CH3- n-C₄H₃O- H CH3- YA1315 CH3- NO₂ H CH3- YA1316 CH3- H CH3- YA1317 CH3- Q₂N- H CH3- YA1318 CH3- CN H CH3- YA1319 CH3- NC H CH3- YA1320 CH3- NC- H CH3- YA1321 CH3- H²₂N- H CH3- YA1323 CH3- H²₂N- H CH3-	YA1310	СН3-	⟨ _};	н	CH3-
YA1313 CH3- In-C₃H₂O- H CH3- YA1314 CH3- In-C₄H₃O- H CH3- YA1315 CH3- Image: NO₂	YA1311	СН3-		Н	CH3-
YA1314 CH3- n-C₄H₃O- H CH3- YA1315 CH3- NO₂ H CH3- YA1316 CH3- O₂N- H CH3- YA1317 CH3- O₂N- H CH3- YA1318 CH3- CN H CH3- YA1319 CH3- H CH3- YA1320 CH3- NC- H CH3- YA1321 CH3- H₂N- H CH3- YA1323 CH3- H₂N- H CH3-	YA1312	СН3-	C ₂ H ₅ O-{	Н	CH3-
YA1315 CH3- NO2 H CH3- YA1316 CH3- Q2N H CH3- YA1317 CH3- Q2N- H CH3- YA1318 CH3- CN H CH3- YA1319 CH3- NC H CH3- YA1320 CH3- NC H CH3- YA1321 CH3- NH2 H CH3- YA1322 CH3- H2N H CH3- YA1323 CH3- H2N H CH3- YA1323 CH3- H2N H CH3-	YA1313	CH3-	n-C ₃ H ₇ O-	н	CH3-
YA1316 CH3- O2N H CH3- YA1317 CH3- O2N- H CH3- YA1318 CH3- CN H CH3- YA1319 CH3- H CH3- YA1320 CH3- NC- H CH3- YA1321 CH3- NH2 H CH3- YA1322 CH3- H2N- H CH3-	YA1314	СН3-		Н	CH3-
YA1316 CH3- CH3- H CH3- YA1317 CH3- O ₂ N- H CH3- YA1318 CH3- CN H CH3- YA1319 CH3- H CH3- YA1320 CH3- NC- H CH3- YA1321 CH3- H ₂ N- H CH3- YA1323 CH3- H ₂ N- H CH3-	YA1315	CH3-	<u> </u>	Н	CH3-
YA1318 CH3- YA1318 CH3- YA1319 CH3- YA1320 CH3- YA1321 CH3- YA1322 CH3- YA1323 CH3- H CH3-	YA1316	CH3-	O ₂ N	Н	СН3-
YA1318 CH3- H CH3- YA1319 CH3- H CH3- YA1320 CH3- NC- H CH3- YA1321 CH3- NH2 H CH3- YA1322 CH3- H2N- H CH3- YA1323 CH3- H2N- H2N- H CH3-	YA1317	CH3-		Н	CH3-
YA1320 CH3- NC- H CH3- YA1321 CH3- NH2 H CH3- YA1322 CH3- H2N H CH3- YA1323 CH3- H2N- H2N- H CH3-	YA1318	CH3-		н	CH3-
YA1321 CH3- H_2 H CH3- H_2 CH3- H_2 H CH3- H_2	YA1319	CH3-	NC	. н	CH3-
YA1321 CH3- H2N H CH3- YA1322 CH3- H2N CH3-	YA1320	CH3-	, ·	н	CH3-
YA1322 CH3- H CH3-	YA1321	СН3-		н	. СН3-
YA1323 CH3- H ₂ N-() H CH3-	YA1322	CH3-	H ₂ N	н	СН3-
	YA1323	CH3-	H ₂ N-(н	СН3-

No. R1 R2 R3 R4 YA1324 CH3- Me₂N H CH3- YA1325 CH3- Me₂N H CH3- YA1326 CH3- Me₂N H CH3- YA1327 CH3- N H CH3- YA1328 CH3- N H CH3- YA1329 CH3- N H CH3- YA1331 CH3- N H CH3- YA1332 CH3- N H CH3- YA1333 CH3- N H CH3- YA1334 CH3- N H CH3- YA1335 CH3- N H CH3- YA1336 CH3- H CH3- YA1337 CH3- H CH3- YA1338 CH3- H CH3- YA1340 CH3- H CH3- YA1341 CH3- H CH3- Y	<u> </u>				
YA1324 CH3- Me₂N H CH3- YA1325 CH3- Me₂N H CH3- YA1326 CH3- Me₂N H CH3- YA1327 CH3- N- H CH3- YA1328 CH3- N- H CH3- YA1329 CH3- N- H CH3- YA1331 CH3- N- H CH3- YA1331 CH3- N- H CH3- YA1332 CH3- N- H CH3- YA1333 CH3- N- H CH3- YA1334 CH3- N- H CH3- YA1335 CH3- N- H CH3- YA1336 CH3- H3CN N- H CH3- YA1338 CH3- H3CN N- H CH3- YA1340 CH3- CH3- H CH3- YA1341 CH3- CH3- H CH3- <tr< td=""><td>No.</td><td>R1</td><td>NMo R2</td><td>R3</td><td>R4</td></tr<>	No.	R1	NMo R2	R3	R4
YA1325 CH3- Me₂N- H CH3- YA1326 CH3- Me₂N- H CH3- YA1327 CH3- N- H CH3- YA1328 CH3- N- H CH3- YA1329 CH3- N- H CH3- YA1330 CH3- N- H CH3- YA1331 CH3- N- H CH3- YA1332 CH3- N- H CH3- YA1333 CH3- N- H CH3- YA1334 CH3- N- H CH3- YA1335 CH3- H CH3- H CH3- YA1336 CH3- H3CN N- H CH3- YA1337 CH3- H3CN N- H CH3- YA1338 CH3- H3CN N- H CH3- YA1340 CH3- H3CN N- H CH3- YA1341 CH3- CH3- H <t< td=""><td>YA132</td><td>24 CH3</td><td></td><td>Н</td><td>СН3-</td></t<>	YA132	24 CH3		Н	СН3-
YA1327 CH3- N- H CH3- YA1328 CH3- N- H CH3- YA1329 CH3- N- H CH3- YA1330 CH3- N- H CH3- YA1331 CH3- N- H CH3- YA1332 CH3- N- H CH3- YA1333 CH3- N- H CH3- YA1334 CH3- N- H CH3- YA1335 CH3- N- H CH3- YA1336 CH3- H ₃ CN N- H CH3- YA1337 CH3- H ₃ CN N- H CH3- YA1338 CH3- H ₃ CN N- H CH3- YA1339 CH3- H CH3- YA1340 CH3- H CH3- YA1341 CH3- H CH3- YA1342 CH3- H CH3- YA1344 CH3CH2- CH3- H CH3-	YA132	5 CH3-	Me ₂ N	Н	СН3-
YA1328 CH3- N	YA132	6 СН3-	Me_2N-	Н	CH3-
YA1329 CH3- N- H CH3- YA1330 CH3- N- H CH3- YA1331 CH3- N- H CH3- YA1332 CH3- N- H CH3- YA1333 CH3- N- H CH3- YA1334 CH3- N- H CH3- YA1335 CH3- N- H CH3- YA1336 CH3- H3CN N- H CH3- YA1337 CH3- H3CN N- H CH3- YA1338 CH3- H3CN N- H CH3- YA1340 CH3- CH3- H CH3- YA1341 CH3- CH3- H CH3- YA1342 CH3- H CH3- H CH3- YA1344 CH3CH2- CH3- H CH3- YA1344 CH3CH2- CH3- H CH3-	YA132	7 СН3-		Н	СН3-
YA1330 CH3- N- H CH3- YA1331 CH3- N- H CH3- YA1332 CH3- N- H CH3- YA1333 CH3- N- H CH3- YA1334 CH3- N- H CH3- YA1335 CH3- N- H CH3- YA1336 CH3- H3CN N- H CH3- YA1337 CH3- H3CN N- H CH3- YA1338 CH3- H3CN N- H CH3- YA1339 CH3- H3CN N- H CH3- YA1340 CH3- H3CN N- H CH3- YA1341 CH3- H3CN N- H CH3- YA1342 CH3- H3CN H3CN H3CN H3CN H3CN YA1344 CH3CH2- CH3CH2- H3CN H3CN H3CN H3CN H3CN H3CN <	YA132	8 снз-		н	СН3-
YA1331 CH3- N- H CH3- YA1332 CH3- N- H CH3- YA1333 CH3- N- H CH3- YA1334 CH3- N- H CH3- YA1335 CH3- H CH3- H CH3- YA1336 CH3- H3- H CH3- H CH3- YA1337 CH3- H3- H CH3- H CH3- YA1338 CH3- H3- H CH3- H CH3- YA1340 CH3- H3- H4- CH3- H CH3- YA1341 CH3- H3- H4- CH3- H4- CH3- YA1343 CH3- H4- CH3- H4- CH3- YA1344 CH3- H4- CH3- H4- CH3- YA1344 CH3- H4- CH3- H4- CH3-	YA1329	Э СН3-	CN-(>-1	Н	СН3-
YA1332 CH3- N- ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←	YA1330	О СН3-		Н	СН3-
YA1333 CH3- ON- H CH3- YA1334 CH3- ON- H CH3- YA1335 CH3- H3CN N- H CH3- YA1336 CH3- H3CN N- H CH3- YA1337 CH3- H3CN N- H CH3- YA1338 CH3- H3CN N- H CH3- YA1339 CH3- CH3- H CH3- YA1340 CH3- CH3- H CH3- YA1341 CH3- CH3- H CH3- YA1342 CH3- H CH3- YA1344 CH3CH2- CH3CH2- CH3CH2-	YA1331	СН3-	(N-())	Н	CH3-
YA1334 CH3- CH3- H CH3- YA1335 CH3- H CH3- H CH3- YA1336 CH3- H₃CN N- H CH3- YA1337 CH3- H₃CN N- H CH3- YA1338 CH3- H₃CN N- H CH3- YA1339 CH3- CH3- H CH3- YA1340 CH3- CH3- H CH3- YA1341 CH3- CH3- H CH3- YA1342 CH3- H CH3- YA1344 CH3CH2- CH9CH2- CH9CH2-	YA1332	СН3-	____\\	Н	CH3-
YA1334 CH3- CH3- H CH3- YA1335 CH3- H3CN N- H CH3- YA1336 CH3- H3CN N- H CH3- YA1337 CH3- H3CN N- H CH3- YA1338 CH3- H3CN N- H CH3- YA1339 CH3- H CH3- YA1340 CH3- CH3- H CH3- YA1341 CH3- CH3- H CH3- YA1342 CH3- H CH3- YA1344 CH3CH2- CH3CH2- CH3CH2-	YA1333	CH3-	< <u></u> __	Н	CH3-
YA1336 CH3- H3CN N- H CH3- YA1337 CH3- H3CN N- H CH3- YA1338 CH3- H3CN N- H CH3- YA1339 CH3- CH3- H CH3- YA1340 CH3- CH3- H CH3- YA1341 CH3- CH3- H CH3- YA1342 CH3- H CH3- YA1343 CH3- H CH3- YA1344 CH3CH2- CH3CH2- CH3CH2-	YA1334	CH3-	O_N-{_}	Н	СН3-
YA1337 CH3- H3CN N- H CH3- YA1338 CH3- H3CN N- H CH3- YA1339 CH3- F- H CH3- YA1340 CH3- CH3- H CH3- YA1341 CH3- CH3- H CH3- YA1342 CH3- H CH3- YA1343 CH3- H CH3- YA1344 CH3CH2- CH3 H CH3-	YA1335	СН3-	0_N-(1	Н	СН3-
YA1338 CH3- H3CN N-√- H CH3- YA1339 CH3- F√- H CH3- YA1340 CH3- F√- H CH3- YA1341 CH3- F√- H CH3- YA1342 CH3- H CH3- YA1343 CH3- H CH3- YA1344 CH3CH2- CH3CH2- CH3CH2-	YA1336	СН3-	H ₃ CN N-	н	CH3-
YA1339 CH3- F- CH3- H CH3- YA1340 CH3- F- CH3- H CH3- YA1341 CH3- F- CH3- H CH3- YA1342 CH3- H CH3- YA1344 CH3CH2- CH3- H CH3- YA1344 CH3CH2- CH3- CH3-	YA1337	СН3-	H ₃ CN_N-{}	н	CH3-
YA1339 CH3- F H CH3- YA1340 CH3- F H CH3- YA1341 CH3- F H CH3- YA1342 CH3- H CH3- YA1343 CH3- H CH3- YA1344 CH3CH2- CH3CH2- CH3CH2-	YA1338	СН3-		н	
YA1340 CH3- F H CH3- YA1341 CH3- F H CH3- YA1342 CH3- H CH3- YA1343 CH3- H CH3- YA1344 CH3CH2- CH3CH2- CH3CH2-	YA1339	СН3-		н	CH3-
YA1341 CH3- F-	YA1340	CH3-	F-(>-i	_ н	СН3-
YA1344 CH3CH2- CH3CH2- CH3-	YA1341	СН3-		н	СН3-
YA1343 CH3- H CH3-	YA1342	СН3-		н	СН3-
YA1344 CH3CH2- CH3- H H	YA1343	CH3-	CCT'	Н	СН3-
	YA1344	СНЗСН2-	СН3-	Н	Н

No.	R1	R2	1 70	
YA134			R3	R4
1213	45 CH3CH2-	CH3CH2~	Н	н
YA134	16 CH3CH2-	∕ ∖∖	н	Н
YA134	7 CH3CH2-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	Н
YA134	8 CH3CH2-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н
YA134	9 CH3CH2-	\\	н	н
YA1350	0 CH3CH2-		н	Н
YA1351	1 Снзсн2-	*	н	Н
YA1352	2 CH3CH2-	^ \\\	Н	Н
YA1353	CH3CH2-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	Н
YA1354	CH3CH2-	×x	Н	Н
YA1355	СН3СН2-	*	Н	Н
YA1356	CH3CH2-	\\\\	н	Н
YA1357	CH3CH2-	L	н	Н
YA1358	CH3CH2-	^	Н	Н
YA1359	СНЗСН2-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	Н
YA1360	CH3CH2-	^	н	Н
YA1361	CH3CH2-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	. Н	Н
YA1362	СНЗСН2-	l	Н	Н
YA1363	СН3СН2-		н	Н
YA1364	СНЗСН2-	lur	н	Н
YA1365	CH3CH2-	$\triangleright \rightarrow$	н	н

No.	R1	R2		
YA13			R3	R4
12131	66 CH3CH2-		н	н
YA136	67 CH3CH2~		н	н
YA136	8 CH3CH2-		н	н
YA136	9 CH3CH2-	\bigcirc - \downarrow	Н	н
YA137	0 CH3CH2-	△ -₁	н	Н
YA137	1 CH3CH2-		н	Н
YA1372	2 CH3CH2-	<u>{</u>	Н	Н
YA1373	CH3CH2-		Н	н
YA1374	CH3CH2-		Н	Н
YA1375	СНЗСН2-	-	Н	Н
YA1376	CH3CH2-		н	Н
YA1377	CH3CH2-	-{\rightarrow}\(\pi\)	Н	Н
YA1378	CH3CH2-	CI	Н	н
YA1379	CH3CH2-		Н	Н
YA1380	CH3CH2- CI	-	Н	H
YA1381	CH3CH2- CH	─	Н	Н
YA1382	CH3CH2- CH	√ \4	. н	н
YA1383	СНЗСН2-	Br }_{	н	н
YA1384	CH3CH2-		Н	Н
YA1385	CH3CH2- Br-	⟨ }-{	н	Н
YA1386	CH3CH2- Br-		Н	Н

No.	R1			
110.		R2	R3	R4
YA138	7 CH3CH2-	Br—⟨⟩ı{	Н	н
YA1388	GH3CH2-	◯ -₁	Н	н
YA1389	ОН3СН2-		н	Н
YA1390	СН3СН2-	-	Н	Н
YA1391		CH₃ }-{	Н	Н
YA1392	CH3CH2-	H ₃ C	Н	н
YA1393	CH3CH2-	I₃C-{_}	н	Н
YA1394	снзсн2-	C₂H₅—{{}	Н	н
YA1395	CH3CH2-	-C ₃ H ₇ {	Н	н
YA1396	CH3CH2-	-C₄H ₉ - -{	н	Н
YA1397	CH3CH2-	OH	н	Н
YA1398	CH3CH2-		Н	Н
YA1399	снзсн2- Н		Н	Н
YA1400	СНЗСН2-	OCH₃ _}_{	Н	Н
YA1401	CH3CH2-	co _	н	Н
YA1402	снзсн2- H ₃	co-{_}-{	Н	Н
YA1403	CH3CH2- H ₃	co-{_}-	. н	Н
YA1404	снзсн2- ^Н з		н	Н
YA1405	СН3СН2-	OC ₂ H ₅	н	н
YA1406	CH3CH2-	H ₅ O —}	н	н
YA1407	CH3CH2- C2	H ₅ O-{	н	Н

No.	R1 R2		
1.00	112	R3	R4
YA140	8 CH3CH2- n-C ₃ H ₇ O-(н	н
YA140		н	Н
YA1410		Н	н
YA1411	CH3CH2-	Н	Н
YA1412		н	Н
YA1413	<u></u> {	Н	Н
YA1414	CH3CH2- NC	Н	Н
YA1415		н	Н
YA1416	CH3CH2-	н	Н
YA1417	CH3CH2-	Н	Н
YA1418	CH3CH2- H ₂ N-	Н	Н
YA1419	CH3CH2- NMe ₂	н	н
YA1420	CH3CH2- Me ₂ N	н	Н
YA1421	CH3CH2- Me ₂ N-	н	Н
YA1422	CH3CH2- N-	Н	Н
YA1423	снзсн2- СN-С	Н	Н
YA1424	CH3CH2-	н	н
YA1425	CH3CH2-	н	Н
YA1426	CH3CH2- N-C	н	Н
YA1427	CH3CH2-	н	Н
YA1428	CH3CH2-	Н	Н

YA1429 CH3CH2- CH3CH2- H H H YA1430 CH3CH2- H₃CN N- H H H YA1431 CH3CH2- H₃CN N- H H H YA1432 CH3CH2- H₃CN N- H H H YA1433 CH3CH2- H₃CN N- H H H YA1433 CH3CH2- H₃CN N- H H H YA1434 CH3CH2- H₃CN N- H H H YA1435 CH3CH2- H₃CH3 H H H YA1436 CH3CH2- H H H H YA1437 CH3CH2- CH3- H CH3- YA1440 CH3CH2- CH3CH2- H CH3- YA1441 CH3CH2- H CH3- H CH3- YA1442 CH3CH2- H CH3- H CH3- YA1444 CH3CH2- H CH3- H CH3- YA1445 CH3CH2- H CH3- H CH3-	No.	R1	R2	R3	R4
YA1431 CH3CH2- H3CN N- H H H YA1432 CH3CH2- H3CN N- H H H YA1433 CH3CH2- H3CN N- H H H YA1433 CH3CH2- H3CN N- H H H YA1433 CH3CH2- H3CN N- H H H YA1434 CH3CH2- H H H H YA1435 CH3CH2- H H H H H YA1436 CH3CH2- H	YA1429	СН3СН2-			
YA1432 CH3CH2− H₃CN N → I H H YA1433 CH3CH2− H₃CN N → I H H YA1434 CH3CH2− → OCH3	YA1430	СН3СН2-	ON-(□-1	н	Н
YA1433 CH3CH2- H3CN N-√- H H H YA1434 CH3CH2- → OCH3 H H H H YA1435 CH3CH2- → OCH3 H H H H YA1436 CH3CH2- → OCH3 H H H H YA1437 CH3CH2- → OCH3 H H H H YA1438 CH3CH2- → OCH3 H H H H YA1438 CH3CH2- → CH3- H CH3- YA1440 CH3CH2- CH3CH2- H CH3- YA1441 CH3CH2- → H CH3- YA1442 CH3CH2- → H CH3- YA1444 CH3CH2- → H CH3- YA1445 CH3CH2- → H CH3- YA1446 CH3CH2- → H CH3- YA1447 CH3CH2- → H CH3- H <td>YA1431</td> <td>СН3СН2-</td> <td>H₃CN N</td> <td>н</td> <td>Н</td>	YA1431	СН3СН2-	H ₃ CN N	н	Н
YA1434 CH3CH2− CH3CH2− H H H YA1434 CH3CH2− CH3CH2− H H H YA1435 CH3CH2− CH3CH2− H H H YA1436 CH3CH2− CH3CH2− H H H YA1437 CH3CH2− CH3- H CH3- YA1443 CH3CH2− CH3CH2− H CH3- YA1441 CH3CH2− H CH3- YA1442 CH3CH2− H CH3- YA1443 CH3CH2− H CH3- YA1444 CH3CH2− H CH3- YA1445 CH3CH2− H CH3- YA1446 CH3CH2− H CH3- YA1447 CH3CH2− H CH3- YA1447 CH3CH2− H CH3- YA1447 CH3CH2− H CH3-	YA1432	СН3СН2-	H ₃ CN N-	н	Н
YA1434 CH3CH2- H H H YA1435 CH3CH2- H H H YA1436 CH3CH2- H H H YA1437 CH3CH2- H H H YA1438 CH3CH2- CH3- H CH3- YA1439 CH3CH2- CH3- H CH3- YA1440 CH3CH2- CH3CH2- H CH3- YA1441 CH3CH2- H CH3- YA1442 CH3CH2- H CH3- YA1443 CH3CH2- H CH3- YA1444 CH3CH2- H CH3- YA1445 CH3CH2- H CH3- YA1446 CH3CH2- H CH3- YA1447 CH3CH2- H CH3- YA1447 CH3CH2- H CH3-	YA1433	CH3CH2-		н	н
YA1435 CH3CH2- FINAL H	YA1434	СН3СН2-		н	Н
YA1436 CH3CH2- H H H YA1437 CH3CH2- H H H YA1438 CH3CH2- CH3- H H YA1439 CH3CH2- CH3- H CH3- YA1440 CH3CH2- CH3CH2- H CH3- YA1441 CH3CH2- H CH3- YA1442 CH3CH2- H CH3- YA1443 CH3CH2- H CH3- YA1444 CH3CH2- H CH3- YA1445 CH3CH2- H CH3- YA1446 CH3CH2- H CH3- YA1447 CH3CH2- H CH3-	YA1435	СНЗСН2-	F-(>-	н	н
YA1438 CH3CH2- CH3- H CH3- YA1449 CH3CH2- CH3CH2- H CH3- YA1441 CH3CH2- H CH3- YA1442 CH3CH2- H CH3- YA1444 CH3CH2- H CH3- YA1445 CH3CH2- H CH3- YA1446 CH3CH2- H CH3- YA1447 CH3CH2- H CH3-	YA1436	CH3CH2-	. —	Н	н
YA1438 CH3CH2- H H H YA1439 CH3CH2- CH3- H CH3- YA1440 CH3CH2- CH3CH2- H CH3- YA1441 CH3CH2- H CH3- YA1442 CH3CH2- H CH3- YA1443 CH3CH2- H CH3- YA1444 CH3CH2- H CH3- YA1445 CH3CH2- H CH3- YA1446 CH3CH2- H CH3-	YA1437	СН3СН2-		н	н
YA1440 CH3CH2- CH3CH2- H CH3- YA1441 CH3CH2- H CH3- YA1442 CH3CH2- H CH3- YA1443 CH3CH2- H CH3- YA1444 CH3CH2- H CH3- YA1445 CH3CH2- H CH3- YA1446 CH3CH2- H CH3- YA1447 CH3CH2- H CH3-	YA1438	СН3СН2-	CCY	Н	н
YA1441 CH3CH2- H CH3- YA1442 CH3CH2- H CH3- YA1443 CH3CH2- H CH3- YA1444 CH3CH2- H CH3- YA1445 CH3CH2- H CH3- YA1446 CH3CH2- H CH3- YA1447 CH3CH2- H CH3-	YA1439	СН3СН2-	СН3-	Н	CH3-
YA1442 CH3CH2-	YA1440	СНЗСН2-	CH3CH2-	н	CH3-
YA1443 CH3CH2-	YA1441	СН3СН2-	△ ✓\	Н	CH3-
YA1444 CH3CH2-	YA1442	СНЗСН2-	Υ	Н	СН3-
YA1445 CH3CH2-	YA1443	CH3CH2-	✓ ✓	н	СН3-
YA1446 CH3CH2- H CH3-	YA1444	СН3СН2-	人、	Н	СН3-
VA1447 CH2010 CH3-	YA1445	СН3СН2-	ightharpoonup	н	СН3-
YA1447 CH3CH2- H CH3-	YA1446	CH3CH2~	丫	Н	CH3-
	YA1447	СН3СН2-	^	Н	CH3-
YA1448 CH3CH2- H CH3-	YA1448	СН3СН2-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	CH3-
YA1449 CH3CH2- H CH3-	YA1449	CH3CH2-	×r	н	CH3-

No.	. R1	R2	R3	
YA14	50 CH3CH2-	\ \ \\ \\ \\ \\		R4
		1	Н	CH3-
YA14	51 CH3CH2-	. \ \ \	Н	СН3-
YA145	52 CH3CH2-		н	СН3-
YA145	3 CH3CH2-	~~~\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	СН3
YA145	4 CH3CH2-	~~~	Н	CH3-
YA145	5 CH3CH2-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	CH3-
YA145	6 CH3CH2-		н	СН3-
YA1457	CH3CH2-		н	CH3-
YA1458	CH3CH2-		н	СН3-
YA1459	СН3СН2-		н	CH3-
YA1460	СН3СН2-		Н	CH3-
YA1461	CH3CH2-	\Diamond	Н	СН3-
YA1462	CH3CH2-		н	СН3-
YA1463	СН3СН2-	\bigcirc \dashv	Н	СН3-
YA1464	СН3СН2-		н	CH3-
YA1465	СНЗСН2-	_}-{	н	СН3-
YA1466	СНЗСН2-	>	н	СН3-
YA1467	снзсн2-		н	СН3-
YA1468	СНЗСН2-		н	СН3-
YA1469	CH3CH2-	→	н	СН3-
YA1470	СН3СН2-		н	CH3-

YA1471 CH3CH2− H CH3− YA1472 CH3CH2− H CH3− YA1473 CH3CH2− H CH3− YA1474 CH3CH2− CH H CH3− YA1475 CH3CH2− CH H CH3− YA1476 CH3CH2− CH H CH3− YA1477 CH3CH2− CH H CH3− YA1478 CH3CH2− BT H CH3− YA1480 CH3CH2− BT H CH3− YA1481 CH3CH2− BT H CH3− YA1482 CH3CH2− BT H CH3− YA1483 CH3CH2− H CH3− YA1484 CH3CH2− H CH3− YA1485 CH3CH2− CH3 H CH3− YA1486 CH3CH2− H CH3− YA1488 CH3CH2− H CH3− YA1489 CH3CH2− H CH3−	No.	. R1 R2	R3	D4
YA1472 CH3CH2− CH3CH2− H CH3− YA1473 CH3CH2− CH3CH2− H CH3− YA1474 CH3CH2− CH3CH2− H CH3− YA1475 CH3CH2− CH3CH2− H CH3− YA1476 CH3CH2− CH3CH2− H CH3− YA1477 CH3CH2− CH3CH2− H CH3− YA1478 CH3CH2− BF H CH3− YA1480 CH3CH2− BF H CH3− YA1481 CH3CH2− BF H CH3− YA1482 CH3CH2− BF H CH3− YA1483 CH3CH2− H CH3− YA1484 CH3CH2− H CH3− YA1485 CH3CH2− H CH3− YA1486 CH3CH2− H CH3− YA1488 CH3CH2− H CH3− YA1489 CH3CH2− H CH3− YA1489 CH3CH2− H CH3− YA1490 CH3CH2− H CH3− <	YA1471	- (
YA1473 CH3CH2- CI		GI IOCI IZ	_ Н	CH3-
YA1473 CH3CH2− H CH3− YA1474 CH3CH2− CH H CH3− YA1475 CH3CH2− CH H CH3− YA1476 CH3CH2− CH H CH3− YA1477 CH3CH2− CH H CH3− YA1478 CH3CH2− Br H CH3− YA1479 CH3CH2− Br H CH3− YA1480 CH3CH2− Br H CH3− YA1481 CH3CH2− Br H CH3− YA1482 CH3CH2− Br H CH3− YA1483 CH3CH2− H CH3− YA1484 CH3CH2− H CH3− YA1485 CH3CH2− H CH3− YA1486 CH3CH2− H CH3− YA1488 CH3CH2− H CH3− YA1489 CH3CH2− H CH3− YA1489 CH3CH2− TC-CH5− H CH3−<	YA1472	01100112	н	СН3-
YA1475 CH3CH2- CH H CH3- YA1476 CH3CH2- CH H CH3- YA1477 CH3CH2- CH H CH3- YA1478 CH3CH2- Br H CH3- YA1479 CH3CH2- Br H CH3- YA1480 CH3CH2- Br H CH3- YA1481 CH3CH2- Br H CH3- YA1482 CH3CH2- Br H CH3- YA1483 CH3CH2- H CH3- YA1484 CH3CH2- H CH3- YA1485 CH3CH2- H CH3- YA1486 CH3CH2- H CH3- YA1488 CH3CH2- H CH3- YA1489 CH3CH2- H CH3- YA1489 CH3CH2- H CH3- YA1490 CH3CH2- T-C4H3- H CH3- YA1481 CH3CH2- T-C4H3- H CH3-	YA1473	CH3CH2-	н	СН3-
YA1476 CH3CH2− CH H CH3− YA1477 CH3CH2− CH H CH3− YA1478 CH3CH2− BF H CH3− YA1479 CH3CH2− BF H CH3− YA1480 CH3CH2− BF H CH3− YA1481 CH3CH2− BF H CH3− YA1482 CH3CH2− BF H CH3− YA1483 CH3CH2− H CH3− YA1484 CH3CH2− H CH3− YA1485 CH3CH2− H CH3− YA1486 CH3CH2− H CH3− YA1487 CH3CH2− H CH3− YA1488 CH3CH2− H CH3− YA1489 CH3CH2− H CH3− YA1489 CH3CH2− H CH3− YA1489 CH3CH2− H CH3− YA1481 CH3CH2− H CH3− YA1489 CH3CH2− H CH3− YA1489 CH3CH2− H CH3− <td>YA1474</td> <td>CH3CH2-CI</td> <td>Н</td> <td>CH3-</td>	YA1474	CH3CH2-CI	Н	CH3-
YA1477 CH3CH2 CH H CH3- YA1478 CH3CH2- Br H CH3- YA1479 CH3CH2- Br H CH3- YA1480 CH3CH2- Br H CH3- YA1481 CH3CH2- Br H CH3- YA1482 CH3CH2- Br H CH3- YA1483 CH3CH2- H CH3- YA1484 CH3CH2- H CH3- YA1485 CH3CH2- H CH3- YA1486 CH3CH2- H CH3- YA1487 CH3CH2- H CH3- YA1488 CH3CH2- H CH3- YA1489 CH3CH2- H CH3- YA1490 CH3CH2- PC2H- H CH3- YA1491 CH3CH2- PC4H- H CH3-	YA1475	CH3CH2- CH	Н	CH3-
YA1478 CH3CH2− Br H CH3− YA1479 CH3CH2− H CH3− YA1480 CH3CH2− Br ← → H CH3− YA1481 CH3CH2− Br ← → H CH3− YA1482 CH3CH2− Br ← → H CH3− YA1483 CH3CH2− H CH3− YA1484 CH3CH2− H CH3− YA1485 CH3CH2− H CH3− YA1486 CH3CH2− H CH3− YA1487 CH3CH2− H CH3− YA1488 CH3CH2− H CH3− YA1489 CH3CH2− C2H5− H CH3− YA1490 CH3CH2− PC3H2− H CH3− YA1491 CH2CH2 PC3H2− H CH3−	YA1476	CH3CH2- CH	н	CH3-
YA1478 CH3CH2- H CH3- YA1479 CH3CH2- H CH3- YA1480 CH3CH2- Br- H CH3- YA1481 CH3CH2- Br- H CH3- YA1482 CH3CH2- Br- H CH3- YA1483 CH3CH2- H CH3- YA1484 CH3CH2- H CH3- YA1485 CH3CH2- H CH3- YA1486 CH3CH2- H CH3- YA1487 CH3CH2- H CH3- YA1488 CH3CH2- H CH3- YA1489 CH3CH2- C2H5- H CH3- YA1490 CH3CH2- PC4H- H CH3- YA1491 CH3CH2- PC4H- H CH3-	YA1477	GIJONIZ	н	CH3-
YA1479 CH3CH2- H CH3- YA1480 CH3CH2- Br H CH3- YA1481 CH3CH2- Br H CH3- YA1482 CH3CH2- Br H CH3- YA1483 CH3CH2- H CH3- YA1484 CH3CH2- H CH3- YA1485 CH3CH2- H CH3- YA1486 CH3CH2- H CH3- YA1487 CH3CH2- H CH3- YA1488 CH3CH2- H CH3- YA1489 CH3CH2- C2H5- H CH3- YA1491 CH3CH2- P-C4H2- H CH3- YA1491 CH3CH2- P-C4H2- H CH3-	YA1478	CH3CH2-	н	СН3-
YA1481 CH3CH2− Br H CH3− YA1482 CH3CH2− Br H CH3− YA1483 CH3CH2− H CH3− YA1484 CH3CH2− H CH3− YA1485 CH3CH2− H CH3− YA1486 CH3CH2− H CH3− YA1487 CH3CH2− H CH3− YA1488 CH3CH2− H CH3− YA1489 CH3CH2− C2H5− H CH3− YA1490 CH3CH2− PC4H2− H CH3− YA1491 CH3CH2− PC4H2− H CH3−	YA1479	CH3CH2-	н	СН3-
YA1482 CH3CH2− Br H CH3− YA1483 CH3CH2− H CH3− YA1484 CH3CH2− H CH3− YA1485 CH3CH2− H CH3− YA1486 CH3CH2− H CH3− YA1487 CH3CH2− H CH3− YA1488 CH3CH2− H CH3− YA1489 CH3CH2− C2H5− H CH3− YA1490 CH3CH2− TC3H7− H CH3− YA1481 CH3CH2− TC4H0− H CH3−	YA1480	CH3CH2- Br{	н	СН3-
YA1483 CH3CH2- H CH3- YA1484 CH3CH2- H CH3- YA1485 CH3CH2- H CH3- YA1486 CH3CH2- H CH3- YA1487 CH3CH2- H CH3- YA1488 CH3CH2- H3C- H CH3- YA1489 CH3CH2- C2H5- H CH3- YA1490 CH3CH2- P-C3H7- H CH3- YA1491 CH3CH2- P-C4H2- H CH3-	YA1481	снзсн2- Br-{	Н	CH3-
YA1484 CH3CH2- H CH3- YA1485 CH3CH2- H CH3- YA1486 CH3CH2- H CH3- YA1487 CH3CH2- H CH3- YA1488 CH3CH2- H3C- H CH3- YA1489 CH3CH2- C2H5- H CH3- YA1490 CH3CH2- PC3H7- H CH3- YA1491 CH3CH2- PC4H0- H CH3-	YA1482	снзсн2− Вг-С>іпі	н	['] CH3-
YA1485 CH3CH2- H CH3- YA1486 CH3CH2- H CH3- YA1487 CH3CH2- H CH3- YA1488 CH3CH2- H3C- H CH3- YA1489 CH3CH2- C2H5- H CH3- YA1490 CH3CH2- T-C3H7- H CH3- YA1491 CH3CH2- T-C4H6- H CH3-	YA1483	CH3CH2-	н	CH3-
YA1485 CH3CH2- H CH3- YA1486 CH3CH2- H CH3- YA1487 CH3CH2- H CH3- YA1488 CH3CH2- H3C- H CH3- YA1489 CH3CH2- C2H5- H CH3- YA1490 CH3CH2- T-C3H7- H CH3- YA1491 CH3CH2- T-C4H6- H CH3-	YA1484	CH3CH2-	н	CH3-
YA1486 CH3CH2- ↓	YA1485		н	1
YA1487 CH3CH2− H CH3− YA1488 CH3CH2− H3C− H CH3− YA1489 CH3CH2− C2H5− H CH3− YA1490 CH3CH2− P-C3H7− H CH3− YA1491 CH3CH2− P-C4H0− H CH3−	YA1486	CH3CH2-	Н	CH3-
YA1489 CH3CH2- C ₂ H ₅	YA1487	CH3CH2-	. Н	CH3-
YA1490 CH3CH2- n-C ₃ H ₇	YA1488	CH3CH2- H ₃ C-{}	н	СН3-
VA14B1 CH2CUP PC4Ho—	YA1489	CH3CH2- C ₂ H ₅ -{	н	СН3-
YA1491 CH3CH2- n-C ₄ H ₉	YA1490		н	СН3-
	YA1491	CH3CH2- n-C ₄ H ₉	Н	СН3-

YA1492 CH3CH2- OH H3 R4 YA1493 CH3CH2- H0 H CH3- YA1494 CH3CH2- H0 H CH3- YA1495 CH3CH2- H3CO H CH3- YA1496 CH3CH2- H3CO H CH3- YA1497 CH3CH2- H3CO H CH3- YA1498 CH3CH2- H3CO H CH3- YA1499 CH3CH2- H3CO H CH3- YA1500 CH3CH2- H3CO H CH3- YA1501 CH3CH2- H3CO H CH3- YA1502 CH3CH2- H3CO H CH3- YA1503 CH3CH2- C2H5O H CH3- YA1504 CH3CH2- C2H5O H CH3- YA1505 CH3CH2- PC4H9O H CH3- YA1506 CH3CH2- PC4H9O H CH3- YA1507 CH3CH2- PC4H9O <th>No.</th> <th>R1</th> <th>R2</th> <th></th> <th></th>	No.	R1	R2		
YA1493 CH3CH2- HO H CH3- YA1494 CH3CH2- HO H CH3- YA1495 CH3CH2- H3CO H CH3- YA1496 CH3CH2- H3CO H CH3- YA1497 CH3CH2- H3CO H CH3- YA1498 CH3CH2- H3CO H CH3- YA1500 CH3CH2- H3CO H CH3- YA1500 CH3CH2- C2H5O H CH3- YA1501 CH3CH2- C2H5O H CH3- YA1502 CH3CH2- C2H5O H CH3- YA1503 CH3CH2- PC3H7O H CH3- YA1504 CH3CH2- PC4H9O H CH3- YA1505 CH3CH2- PC4H9O H CH3- YA1506 CH3CH2- H CH3- H CH3- YA1507 CH3CH2- H CH3- H CH3- YA1508 CH3CH2- H CH3- H CH3- YA1509	YA14	92 CH3CH2-	OH /=	R3	R4
YA1494 CH3CH2− HO H CH3− YA1495 CH3CH2− H CH3− YA1496 CH3CH2− H3CO H CH3− YA1497 CH3CH2− H3CO H CH3− YA1498 CH3CH2− H3CO H CH3− YA1499 CH3CH2− H3CO H CH3− YA1500 CH3CH2− H CH3− YA1501 CH3CH2− C2H5O H CH3− YA1502 CH3CH2− C2H5O H CH3− YA1503 CH3CH2− C2H5O H CH3− YA1504 CH3CH2− C2H5O H CH3− YA1505 CH3CH2− NO2 H CH3− YA1506 CH3CH2− H CH3− YA1507 CH3CH2− H CH3− YA1508 CH3CH2− H CH3− YA1509 CH3CH2− H CH3− YA1510 CH3CH2− H CH3− YA1511 CH3CH2− H CH3−	VA146	2 01100110	HO		CH3-
YA1495 CH3CH2-	17/148	- CH3CH2-		Н	СН3-
YA1496 CH3CH2- H CH3- YA1497 CH3CH2- H3CO H CH3- YA1498 CH3CH2- H3CO H CH3- YA1499 CH3CH2- H3CO H CH3- YA1500 CH3CH2- H3CO H CH3- YA1500 CH3CH2- H CH3- YA1501 CH3CH2- C2H5O H CH3- YA1502 CH3CH2- C2H5O H CH3- YA1503 CH3CH2- PC3H7O H CH3- YA1504 CH3CH2- PC4H9O H CH3- YA1505 CH3CH2- PC4H9O H CH3- YA1506 CH3CH2- H CH3- YA1507 CH3CH2- H CH3- YA1508 CH3CH2- H CH3- YA1509 CH3CH2- H CH3- YA1511 CH3CH2- H2N H CH3- YA1512 CH3CH2- H CH3- H CH3- YA1512 CH3CH2- H	YA149	04 CH3CH2-		н	СН3-
YA1498 CH3CH2- H CH3- YA1497 CH3CH2- H3CO H CH3- YA1498 CH3CH2- H3CO H CH3- YA1499 CH3CH2- H3CO H CH3- YA1500 CH3CH2- H CH3- YA1501 CH3CH2- H CH3- YA1502 CH3CH2- C2H5O H CH3- YA1503 CH3CH2- PC3H7O H CH3- YA1504 CH3CH2- PC4H9O H CH3- YA1505 CH3CH2- PC4H9O H CH3- YA1506 CH3CH2- PA150- H CH3- YA1507 CH3CH2- PA150- H CH3- YA1508 CH3CH2- PA150- H CH3- YA1509 CH3CH2- PA150- H CH3- YA1511 CH3CH2- PA150- H CH3- YA1512 CH3CH2- PA150- H CH3-	YA149			Н	CH3-
YA1498 CH3CH2− H3CO H CH3− YA1499 CH3CH2− H3CO H CH3− YA1500 CH3CH2− H CH3− YA1501 CH3CH2− C2H5O H CH3− YA1502 CH3CH2− C2H5O H CH3− YA1503 CH3CH2− C-C3H7O H CH3− YA1504 CH3CH2− PC4H9O H CH3− YA1505 CH3CH2− NO2 H CH3− YA1506 CH3CH2− H CH3− YA1507 CH3CH2− Q2N H CH3− YA1508 CH3CH2− H CH3− YA1509 CH3CH2− H CH3− YA1510 CH3CH2− H CH3− YA1511 CH3CH2− H CH3− YA1512 CH3CH2− H CH3− YA1512 CH3CH2− H CH3− YA1512 CH3CH2− H CH3−	YA149	6 CH3CH2-	H₃CO —∤	Н	CH3-
YA1499 CH3CH2− H3CO → III ←	YA149	7 СНЗСН2-	H₃CO- { }-{	Н	CH3-
YA1500 CH3CH2- OC2H5 H CH3- YA1501 CH3CH2- C2H5O H CH3- YA1502 CH3CH2- C2H5O H CH3- YA1503 CH3CH2- PC3H7O H CH3- YA1504 CH3CH2- PC4H9O H CH3- YA1505 CH3CH2- NO2 H CH3- YA1506 CH3CH2- NO2 H CH3- YA1507 CH3CH2- NO2 H CH3- YA1508 CH3CH2- H CH3- YA1509 CH3CH2- H CH3- YA1510 CH3CH2- H CH3- YA1511 CH3CH2- H CH3- YA1512 CH3CH2- H CH3- YA1512 CH3CH2- H CH3-	YA1498	В Снзсн2-	H ₃ CO-{_}-{	н	CH3-
YA1500 CH3CH2- Image: CH3CH2- Image: CH3CH2- H CH3- YA1501 CH3CH2- C2H5O- Image: CH3- H CH3- YA1502 CH3CH2- C-2H5O- Image: CH3- H CH3- YA1503 CH3CH2- Image: CH3- Image: CH3- H CH3- YA1504 CH3CH2- Image: CH3- Image: CH3- H CH3- YA1505 CH3CH2- Image: CH3- Image: CH3- Image: CH3- H CH3- YA1507 CH3CH2- Image: CH3-	YA1499	СН3СН2-		Н	СН3-
YA1502 CH3CH2- C2H5O- H CH3- YA1503 CH3CH2- In-C3H7O- H CH3- YA1504 CH3CH2- In-C4H9O- H CH3- YA1505 CH3CH2- In-C4H9O- H CH3- YA1506 CH3CH2- In-C4H9O- H CH3- YA1507 CH3CH2- In-C4H9O- H CH3- YA1508 CH3CH2- In-C4H9O- H CH3- YA1509 CH3CH2- In-C4H9O- H CH3- YA1510 CH3CH2- In-C4H9O- H CH3- YA1511 CH3CH2- In-CH9O- H CH3- YA1512 CH3CH2- In-CH9O- In-CH9O- In-CH9O- YA1512 CH3CH2- In-CH9O- In-CH9O- In-CH9O- In-CH9O-	YA1500			Н	CH3-
YA1503 CH3CH2- n-C₃H₂O- H CH3- YA1504 CH3CH2- n-C₄H₃O- H CH3- YA1505 CH3CH2- NO₂ H CH3- YA1506 CH3CH2- O₂N- H CH3- YA1507 CH3CH2- O₂N- H CH3- YA1508 CH3CH2- CN H CH3- YA1509 CH3CH2- NC- H CH3- YA1510 CH3CH2- NC- H CH3- YA1511 CH3CH2- NH₂ H CH3- YA1512 CH3CH2- H₂N H CH3-	YA1501	CH3CH2-	5 ₂ H ₅ O {}	Н	CH3-
YA1504 CH3CH2- ∩-C4H9O- H CH3- YA1505 CH3CH2- NO2 H CH3- YA1506 CH3CH2- H CH3- YA1507 CH3CH2- O2N- H CH3- YA1508 CH3CH2- CN H CH3- YA1509 CH3CH2- H CH3- YA1510 CH3CH2- H CH3- YA1511 CH3CH2- H CH3- YA1512 CH3CH2- H CH3-	YA1502	СНЗСН2-	C ₂ H ₅ O-⟨\	Н	CH3-
YA1505 CH3CH2- NO2	YA1503	CH3CH2-	-C ₃ H ₇ O-	Н	CH3-
YA1505 CH3CH2- H CH3- YA1506 CH3CH2- H CH3- YA1507 CH3CH2- O2N- H CH3- YA1508 CH3CH2- CN H CH3- YA1509 CH3CH2- H CH3- YA1510 CH3CH2- NC- H CH3- YA1511 CH3CH2- H CH3- YA1512 CH3CH2- H2N H CH3-	YA1504	CH3CH2-	_	н	СН3-
YA1506 CH3CH2- H CH3- YA1507 CH3CH2- O2N- H CH3- YA1508 CH3CH2- CN H CH3- YA1509 CH3CH2- H CH3- YA1510 CH3CH2- NC- H CH3- YA1511 CH3CH2- NH2 H CH3- YA1512 CH3CH2- H2N H CH3-	YA1505			н	СН3-
YA1508 CH3CH2- CN H CH3- YA1509 CH3CH2- NC H CH3- YA1510 CH3CH2- NC- H CH3- YA1511 CH3CH2- NH2 H CH3- YA1512 CH3CH2- H2N H CH3-	YA1506	СНЗСН2-	2N	Н	*
YA1508 CH3CH2- H CH3- YA1509 CH3CH2- H CH3- YA1510 CH3CH2- NC- H CH3- YA1511 CH3CH2- NH2 H CH3- YA1512 CH3CH2- H2N H CH3-	YA1507	CH3CH2- O		н	CH3-
YA1510 CH3CH2- NC- H CH3- YA1511 CH3CH2- NH2 H CH3- YA1512 CH3CH2- H2N	YA1508	CH3CH2-	_CN _}_{	Н	CH3-
YA1511 CH3CH2- NH ₂ H CH3- YA1512 CH3CH2- H ₂ N H CH3-	YA1509	CH3CH2-	◯ -₁	н	СН3-
YA1512 CH3CH2- H2N CH3-	YA1510	CH3CH2- NC	, ,	н	CH3-
YA1512 CH3CH2- - >=	YA1511			н	СН3-
	YA1512	CH3CH2-		Н	CH3-

No.	R1 R2		T
		R3	R4
YA1513		н	СН3-
YA1514		н	CH3-
YA1515	CH3CH2- Me ₂ N	Н	СН3-
YA1516	CH3CH2- Me ₂ N-	н	CH3-
YA1517	CH3CH2-	Н	СН3-
YA1518	CH3CH2-	Н	CH3-
YA1519	CH3CH2- CN-C>-{	н	CH3-
YA1520	снзсн2-	Н	СН3-
YA1521	CH3CH2-	н	СН3-
YA1522	CH3CH2-	Н	СН3-
YA1523	CH3CH2-	Н	СН3-
YA1524	CH3CH2-	н	СН3-
YA1525	CH3CH2-	н	CH3-
YA1526	CH3CH2- H3CN N	н	CH3-
YA1527	CH3CH2- H ₃ CN N-	н	CH3-
YA1528	CH3CH2-	н	CH3-
YA1529	CH3CH2- CH3CH2-	H 	СН3-
YA1530	CH3CH2-	н	СН3-
YA1531	CH3CH2- F-C>III-{	н	СН3-
YA1532	СН3СН2-	Н	СН3-
YA1533	CH3CH2-	н	СН3-

No.	STRUCTURE
YA1534	
	CH ₃ O N N O CH ₃ O CH ₃
YA1535	CIH CIH
	CI N N O CH ₃
YA1536	CIH CIH
	CI N N O CH ₃
/A1537	
	H ₃ C CH ₃

YA1538	
	OH N CH ₃
YA1539	H ₃ C N CH ₃
YA1540	H ₃ C N N N O CH ₃
YA1541	CI N N O CH ₃

YA1542	CIH N N N O CH ₃
YA1543	CI N N CH ₃
YA1544	HCI HCI N N N N O CH ₃

240.48.48	
YA1545	HCI HCI N N N N N N N N N N N N N N N N N N N
YA1546	HCI HCI N N N N N O CH ₃
YA1547	N N N O CH ₃

YA1548	
•	HCI HCI NN NN NN O CH ₃ C
YA1549	HCI HCI N N N N N N O CH ₃
YA1550	CH ₃ HCI N N O CH ₃ O CH ₃

YA1551	CIH CIH N N N N N O CH3
YA1552	N CH ₃
YA1553	HCI HCI N N CH ₃

YA1554	
	HCI HCI N N N O CH ₃
YA1555	HCI HCI N N N N N O CH ₃
YA1556	HCI HCI HCI N N N N N CH ₃
YA1557	HCI HCI HCI N N N N N O CH ₃

YA1558	
	H ₃ C S N N N O CH ₃
YA1559	HCI HCI N N N N N O CH ₃
YA1560	H ₃ C HCI HCI N N N N N O CH ₃

YA1561	
	HCI N N N N N N N N N N N N N N N N N N N
YA1562	HO
YA1563	HCI HCI N N N O CH ₃
YA1564	HCI CH ₃ HCI N N CH ₃ CH ₃

YA1565	·
	N N N N N CH ₃
YA1566	H ₃ C N N N N O CH ₃
YA1567	HO N N N N CH ₃
YA1568	N N N CH ₃

YA1569	
	HO CH ₃
YA1570	H ₃ C N N N O CH ₃
YA1571	H ₃ C N N N O CH ₃
YA1572	H ₃ C S O N N N O CH ₃

244570	
YA1573	N N N N O CH ₃
YA1574	F F F O CH ₃
YA1575	F N N N N CH ₃

YA1576	
	H ₃ C N N N O CH ₃
YA1577	N CH ₃
YA1578	CH ₃ CH ₃ O N N O CH ₃

YA1579	
	CH ₃ O CH ₃
YA1580	CI N N N O CH ₃
YA1581	CI CI N N N N O CH ₃
YA1582	CI N N O CH ₃

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YA1583	T
	O-N N CH ₃
YA1584	H ₃ C O N N N O CH ₃
YA1585	H ₃ C O N N N O CH ₃
YA1586	CH ₃

YA1587	
	H ₃ C N N N CH ₃
YA1588	H ₃ C N N N O CH ₃
YA1589	H ₂ N O CH ₃
YA1590	Br N O CH ₃

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Tabl	e-4
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No. R1 R2 R3 R4 R5	Table-4					
YB1 CH3- CH3- H			ロコス・ストム			
YB1 CH3- CH3- H	No.	R1	R2	IR3	R4	TR5
YB3 CH3- H H H H YB4 CH3- H H H H YB5 CH3- H H H H YB6 CH3- H H H H YB7 CH3- H H H H YB8 CH3- H H H H YB10 CH3- H H H H YB11 CH3- H H H H YB12 CH3- H H H H YB13 CH3- O H H H H	YB1	СН3-	СН3-			
YB4 CH3- H H H H YB5 CH3- H H H H YB6 CH3- H H H H YB7 CH3- H H H H YB8 CH3- H H H H YB9 CH3- H H H H YB10 CH3- H H H H YB11 CH3- H H H H YB12 CH3- H H H H YB13 CH3- CH3- H H H	YB2	СН3-	CH3CH2-	Н	Н	Н
YB5 CH3- H H H H YB6 CH3- H H H H YB7 CH3- H H H H YB8 CH3- H H H H YB9 CH3- H H H H YB10 CH3- H H H H YB11 CH3- H H H H YB13 CH3- CH3- H H H	YB3	СН3-	∕ ∖\	Н	н	Н
YB6 CH3- H H H H YB7 CH3- H H H H YB8 CH3- H H H H YB9 CH3- H H H H YB10 CH3- H H H H YB11 CH3- H H H H YB12 CH3- H H H H YB13 CH3- CH3- H H H H	YB4	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	н	Н
YB7 CH3- H <td>YB5</td> <td>СН3-</td> <td>\\\</td> <td>Н</td> <td>Н</td> <td>н</td>	YB5	СН3-	\\\	Н	Н	н
YB8 CH3- H <td>YB6</td> <td>СН3-</td> <td>人、</td> <td>Н</td> <td>н</td> <td>н</td>	YB6	СН3-	人、	Н	н	н
YB9 CH3- H H H H YB10 CH3- H H H H YB11 CH3- H H H H YB12 CH3- H H H H YB13 CH3- CH3- H H H H	YB7	СН3-	7	Н	Н	Н
YB10 CH3- H H H H YB11 CH3- H H H H YB12 CH3- H H H H YB13 CH3- CH3- H H H	YB8	СН3-	^ \\\\	н	Н	н
YB11 CH3-	YB9	СН3-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	Н	Н
YB12 CH3- H H H YB13 CH3- H H H	YB10	СН3-	\\\\	Н	н	Н
YB13 CH3- H H H	YB11	СН3-	^ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н	н	Н
VP14 QUID	YB12	СН3-	\\\\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	н	Н	н
YB14 CH3-	YB13	CH3-	Q _o	Н	Н	Н
	YB14	СН3-	Qai	Н	Н	Н
YB15 CH3- H H H	YB15	СН3-		Н	н	н

No.	. R1	R2	R3	R4	R5
		~~\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			IKO
YB16	CH3-		Н	H .	Н
YB17	снз-		н	н	Н
YB18	СН3-	◯ ─-;	Н	Н	H
YB19	СН3-	F 	Н	н	Н
YB20	СН3-	F	Н	н	Н
YB21	СН3-	F-{}-{	н	Н	Н
YB22	СН3-	CI →	Н	Н	Н
YB23	СН3-	CI	Н	н	Н
YB24	СН3-	C⊢ (}–{	Н	Н	Н
YB25	СН3-	Br	Н	Н	Н
YB26	СН3-	Br	н	Н	н
YB27	СН3-	Br—⟨{}	Н	Н	Н
YB28	СН3-	CH ₃	Н	н	Н
YB29	СН3-	H ₃ C	Н	Н	н
YB30	снз-	H ₃ C-{{{}}	H .	Н	Н
YB31	СН3-	C ₂ H ₅ —{{{1}}}	Н	Н	н
YB32	СН3-	OH →	Н	Н	н
YB33	СН3-	HO	Н	H	Н

No.	R1	R2	R3	R4	The state of the s
YB34	СН3-	HO-{}	H	Н	R5 H
YB35	СН3-	OCH ₃	Н	н	н
YB36	СН3-	H ₃ CO	н	Н	Н
YB37	СН3-	H ₃ CO-{}-{	Н	Н	Н
YB38	СН3-	C ₂ H ₅ O-{	Н	н	Н
YB39	CH3-	NO ₂	Н	н	н
YB40	СН3-	O ₂ N	н	Н	н
YB41	СН3-	O ₂ N-{_}{	Н	Н	Н
YB42	СН3-	CN →	Н	Н	Н
YB43	СН3-	NC	Н	Н	Н
YB44	СН3-	NC-{}-{	Н	Н	н
YB45	СН3-	CN^Q,	Н	н	Н
YB46	СН3-		Н	Н	Н
YB47	СН3-	CCY'	Н	Н	. н
YB48	СН3-	Con'	н .	Н	н
YB49	СН3-	F ON	Н	Н	н
YB50	СН3-		Н	Н	н
YB51	СН3-	O'N Durk	н	Н	н

No.	R1	R2	R3	R4	155
			- 113	- IN4	R5
YB52	СН3-	<u></u> {	ОН	Н	н
YB53	СН3-	F-4	ОН	Н	н
YB54	СН3-	F	ОН	Н	Н
YB55	СН3-	F-{}-{	ОН	Н	н
YB56	СН3-	CI →	ОН	Н	н
YB57	СН3-	CI	ОН	Н	Н
YB58	СН3-	C⊢∕∑—{	ОН	Н	н
YB59	СН3-	Br 	ОН	. н	н
YB60	СН3-	Br{	ОН	Н	Н
YB61	СН3-	Br—{	ОН	н	Н
YB62	СН3-	CH ₃	ОН	н	н
YB63	СН3-	H ₃ C	ОН	Н	Н
YB64	СН3-	H ₃ C-{}	ОН	Н	Н
YB65	CH3-	C ₂ H ₅ —{	ОН	Н	Н
YB66	СН3-	OH OH	ОН	Н	Н
YB67	СН3-	HO HO	ОН	Н	Н
YB68	СН3-	HO-{}-}	ОН	Н	н
YB69	СН3-	OCH ₃	ОН	н	Н

No.	R1	R2 H₃CQ	R3	R4	R5
YB70	СН3-	H₃CO \	он	н	Н
YB71	СН3-	H ₃ CO-{	ОН	Н	Н
YB72	СН3-	C ₂ H ₅ O-{	ОН	Н	Н
YB73	CH3	NO ₂	он	Н	н
YB74	СН3-	O ₂ N	ОН	Н	н
YB75	CH3	O ₂ N-{	он	Н	Н
YB76	СН3-	CN	он	н	н
YB77	CH3-	NC.	он	Н	Н
YB78	СН3-	NC-{}	ОН	Н	н
YB79	СН3-	Ch.O.	он	Н	н
YB80	СН3-		он	Н	н
YB81	СН3-	CC '	он	Н	Н
YB82	СН3-	◯ -₹	CN	Н	Н
YB83	СН3-	F	CN	Н	Н
YB84	СН3-	F	CN	Н	н
YB85	СН3-	F-{_}-{	CN	н	Н
YB86	снз-	CI	CN	н	н
YB87	СН3-	CI	CN	Н	Н

No.	R1	R2	. R3	R4	Inc
YB88	СН3-	C⊢ (}-{	CN	Н	R5 H
YB89	СН3-	Br	CN	Н	Н
YB90	СН3-	Br.	CN	н	н
YB91	СН3-	Br—⟨{{	CN	Н	Н
YB92	СН3-	CH₃ <	CN	Н	Н
YB93	СН3-	H ₃ C	CN	н	Н
YB94	СН3-	H ₃ C-{{{1}}	CN	н	н
YB95	СН3-	C ₂ H ₅ —{{{ 1}}}	CN	Н	н
YB96	СН3-	OH →	CN	н	н
YB97	СН3-	HO	CN ·	н	Н
YB98	СН3-	HO-{_}_{}	CN	н	н
YB99	СН3-	OCH ₃	CN	Н	Н
YB100	СН3-	H ₃ CO	CN	Н	Н
YB101	СН3-	H ₃ CO-{{}	CN	н	н
YB102	СН3-	C ₂ H ₅ O-{{{ }}}	CN	н	Н
YB103	СН3-	NO ₂	CN	Н	Н
YB104	СН3-	O ₂ N	CN	Н	Н
YB105	СН3-	O ₂ N-{}	CN	Н	н

No.	R1	R2	R3	R4	lor.
YB106	СН3-	CN <	CN	Н	R5
YB107	СН3-	NC	CN	Н	н
YB108	СН3-	MC-{}-{	CN	Н	н
YB109	СН3	ChO	CN	Н	Н
YB110	СН3-		CN	Н	н
YB111	СН3-		CN	Н	Н
YB112	СН3-	Н	н	CH3-	н
YB113	СН3-	Н	Н	СН3СН2-	н
YB114	СН3-	Н	Н	△ \\	Н
YB115	СН3	Н	н	7	Н
YB116	СН3-	Н	н	\\\\	Н
YB117	СН3-	н	Н	人、	Н
YB118	CH3-	Н	Н	7,	н
YB119	СН3-	Н	Н	^ \\\	Н
YB120	СН3-	Н	Н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н
YB121	СН3-	Н	Н	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Н
YB122	СН3-	Н	Н	~~~	کر H
YB123	СН3-	н	Н	\\\\\	H

No.	R1	R2	R3	R4	Inc
YB124	1 СН3-	Н	Н	Ox	R5 H
YB125	снз-	Н	Н		Н
YB126	СН3-	Н	Н	Ŏ	, H
YB127	СН3-	Н	н		Н
YB128	СН3-	Н	н	F	н
YB129	СН3-	н	Н	F	Н
YB130	СН3-	н	Н	F-(){	Н
YB131	СН3-	Н	Н	CI	Н
YB132	СН3-	н	Н	CI	Н
YB133	СН3-	Н	Н	CH	Н
YB134	СН3-	Н	Н	CI	Н
YB135	СН3-	Н	Н	Br	н
YB136	СН3-	Н	Н	Br.	н
YB137	СН3-	Н	Н	Br—{_}{	Н
YB138	СН3-	Н	н	CH ₃	Н
YB139	СН3-	Н	Н	H ₃ C	н
YB140	СН3-	Н	Н	H ₃ C-{}-{	н
YB141	СН3-	Н	Н	C ₂ H ₅ —{	н

No.	R1	R2			
110.		INZ	R3	R4	R5
YB142	СН3-	Н	н	OH OH	н
YB143	СН3-	Н	Н	HO	Н
YB144	СН3-	Н	Н	HO-{_}	н
YB145	СН3-	Н	Н	OCH ₃	Н
YB146	СН3-	Н	Н	H ₃ CO	Н
YB147	СН3-	н	Н	H ₃ CO-{}-{	Н
YB148	СН3-	н	Н	C ₂ H ₅ O-{}-{	Н
YB149	СН3-	Н	Н	NO ₂	Н
YB150	СН3-	Н	. Н	O ₂ N	Н
YB151	СН3-	Н	. Н	O ₂ N-{}	Н
YB152	СН3-	н	н	CN →	Н
YB153	СН3-	Н	н	NC	Н
YB154	СН3-	Н	Н	NC-{}	Н
YB155	СН3-	Н	н		Н
YB156	СН3-	Н	н .		Н
YB157	СН3-	н	н	F	н
YB158	CH3-	Н	н	H ₃ C	Н
YB159	СН3-	Н	н	F	Н

No.	R1	R2	R3	R4	100
				174	R5
YB160	CH3-	Н	Н	P O'N	н
YB161	СН3-	н	Н	F CH	Н
YB162	СН3-	н	н		Н
YB163	СН3-	Н	Н	S N	. Н
YB164	СН3-	Н	н	⟨ }-₁	ОН
YB165	СН3-	Н	Н	F	ОН
YB166	CH3-	н	Н	F	ОН
YB167	СН3-	н	Н	F—()—;	ОН
YB168	CH3-	н	Н	CI	ОН
YB169	СН3-	Н	Н	CI →	он
YB170	СН3-	Н	Н	CH	ОН
YB171	СН3-	Н	Н	Br	ОН
YB172	СН3-	Н	Н	Br.	он
YB173	СН3-	Н	н	Br—{}	он
YB174	снз-	Н	н .	CH₃ —{	ОН
YB175	СН3-	н	Н	H ₃ C —}	он
YB176	снз-	Н	Н	H ₃ C-{{}}	ОН
YB177	СН3-	Н	Н	C ₂ H ₅ —{{{ }}}	ОН

No.	R1	R2	R3	R4	R5
YB178	СН3-	Н	Н	OH S	ОН
YB179	СН3-	Н	Н	HO	ОН
YB180	СН3-	н	н	HO-{}	он
YB181	СН3-	Н	Н	OCH ₃	ОН
YB182	СН3-	Н	Н	H₃CO —}-{	ОН
YB183	СН3-	Н	н	H₃CO-{_}_{	ОН
YB184	СН3-	Н	н	C ₂ H ₅ O-	ОН
YB185	СН3-	Н	н	NO ₂	ОН
YB186	СН3-	н	н	O ₂ N	он
YB187	СН3-	Н	н	O ₂ N-{_}{	ОН
YB188	СН3-	Н	н	CN	он
YB189	СН3-	Н	Н	NC	он
YB190	СН3-	Н	Н	NC-{}	он
YB191	СН3-	Н	н		ОН
YB192	СН3-	Н	Н	CC	ОН
YB193	CH3-	Н	Н		CN
YB194	СН3-	Н	н	F	CN
YB195	СН3-	н	н	F.	CN

No.	R1	R2	R3	R4	R5
YB196	СН3-	н	. Н	F-{	CN
YB197	СН3-	н	Н	CI	CN
YB198	СН3-	Н	Н	CI	CN
YB199	CH3-	Н	Н	CH{}	CN
YB200	СН3-	H	н	Br	CN
YB201	СН3-	Н	Н	Br	CN
YB202	СН3-	H	н	Br—{	CN
YB203	СН3-	Н	н	CH ₃	CN
YB204	СН3-	Н	н	H ₃ C	CN
YB205	CH3-	Н	н	H ₃ C-{{{1}}}-{{1}}	CN
YB206	СН3	н	Н	C ₂ H ₅ -{{{ }}}{{ }}	CN
YB207	СН3-	Н	Н	OH OH	CN
YB208	СН3-	Н	Н	HO ————————————————————————————————————	CN
YB209	СН3-	н	Н	· HO-€}	CN
YB210	СН3	Н	Н .	OCH₃	CN
YB211	СН3-	Н	Н	H ₃ CO	CN
YB212	СН3-	Н	н	H₃CO-⟨}_{,	CN
YB213	СН3	Н	Н	C ₂ H ₅ O-{	CN

No.	R1	R2	R3	ID4	
				R4 NO ₂	R5
YB214	СН3-	Н	н		CN
YB215	CH3-	Н	н	O ₂ N	CN
YB216	СН3-	Н	Н	O ₂ N-{_}{	CM
YB217	СН3-	Н	·	CN →	CN
YB218	СН3-	Н	Н	NC \	CN
YB219	снз-	Н	н	NC-(CN
YB220	СН3-	Н	н		CN
YB221	СН3-	H	Н	CO'	CN
YB222	СН3-	Н	н	⟨ }−ŧ	0
YB223	СН3-	н	Н	F	0
YB224	СН3-	Н	Н	F	0
YB225	СН3-	Н	Н	F-(){	0
YB226	СН3-	н	Н	CI	0
YB227	СН3-	Н	Н	CI	
YB228	СН3-	н	н	CH{}	0
YB229	СН3-	Н	н	Br	0
YB230	СН3-	Н	н	Br	0
YB231	СН3-	н	н	Br—{}	<u></u>

No.	R1	R2	R3	R4	
YB232	СН3-	Н	Н	CH ₃	R5 O
YB233	СН3-	Н	Н	H ₃ C	
YB234	СН3-	Н	н	H ₃ C-\(\)	
YB235	СН3-	н	Н	C ₂ H ₅ —{	
YB236	СН3-	Н	Н	OH OH	0
YB237	СН3-	Н	Н	HO HO	0
YB238	СН3-	Н	н	HO-{}-{}	0
YB239	СН3-	н	Н	OCH ₃	0
YB240	СН3-	Н	Н	H ₃ CO	0
YB241	СН3-	Н	Н	H ₃ CO-{}	0
YB242	СН3-	Н	Н	C ₂ H ₅ O-{	
YB243	СН3-	Н	Н	NO ₂	
YB244	СН3-	Н	н	O ₂ N	
YB245	СН3-	Н	Н	O ₂ N-{}	0
YB246	СН3-	Н	Н	CN →	
YB247	СН3-	Н	Н	NC	
YB248	СН3	Н	н	NC-{}-{	0
YB249	СН3-	Н	н		0

No.	R1	R2	R3	R4	R5
YB250	СН3-	н	н	CC	<u></u>

No.	STRUCTURE
VR251	
YB251	N N N O CH ₃
YB252	N N N O CH ₃
YB253	N N N CH ₃
YB254	N N N O CH ₃

YB255	7
	N N N O CH ₃
YB256	
	N .
	Ŋ
	N CH ₃
	CH ₃
YB257	
	N N N O
	CH ₃
YB258	Br
	N. T.
	Br CH ₃

YB259	N CH ₃
YB260	N CH ₃
YB261	H ₃ C N N N O CH ₃
YB262	O CH ₃ N N O CH ₃

VP262	
YB263	CH ₃ O CH ₃
YB264	N.
·	CH ₃ N O CH ₃
YB265	Br N N O CH ₃
YB266	HO N N N N N N N N N N N N N N N N N N N

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YB267	
	CH ₃ CH ₃ CH ₃ CH ₃
YB268	N N N O CH ₃
YB269	N CH ₃
YB270	H ₃ C N N N N O CH ₃
YB271	H ₃ C N N N N N N O CH ₃

YB272	
	O N N N N O CH ₃
YB273	H ₃ C-N
YB274	HO N CH ₃
YB275	N N N N N O CH ₃

YB276	N N N N O CH ₃
YB277	N N N CH ₃
YB278	CH ₃ N N N CH ₃ O CH ₃

Particularly preferred compounds of the present invention represented by

formula (I) include: 2-(3-Phenylpiperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(4-Fluorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(3-Fluorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(2-Fluorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(4-Chlorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; (S)-2-(3-(4-Chlorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4one; (R)-2-(3-(4-Chlorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4one; 2-(3-(3-Chlorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(2-Chlorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(4-Bromophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(3-Bromophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;2-(3-(2-Bromophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(4-Methylphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(3-Methylphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(2-Methylphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;2-(3-(4-Cyanophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(3-Cyanophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(2-Cyanophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(4-Methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(3-Methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(2-Methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(2-Ethoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; 2-(3-(5-Fluoro-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3Hpyrimidin-4-one;

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2-(3-(4-Fluoro-3-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-
pyrimidin-4-one;
pyrimidin-4-one;
(S)-2-(3-(4-Fluoro-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-
pyrimidin-4-one;
(R) - 2 - (3 - (4 - Fluoro - 2 - methoxyphenyl) piperazin - 1 - yl) - 3 - methyl - 6 - (4 - pyridyl) - 3H - (4 -
pyrimidin-4-one;
 2-(3-(4-Chloro-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-
 pyrimidin-4-one;
 2-(3-(4-Fluoro-2-methylphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-
 pyrimidin-4-one;
 2-(3-(2-Fluoro-6-methoxyphenyl) piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3\textit{H-}
 pyrimidin-4-one;
 2\hbox{-}(3\hbox{-}(5\hbox{-Bromo-}2\hbox{-methoxyphenyl}) piperazin-1\hbox{-yl})-3\hbox{-methyl-}6\hbox{-}(4\hbox{-pyridyl})-3\textit{H-pyrimid}
 in-4-one;
 2-(3-(2-Bromo-4-fluorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-
  pyrimidin-4-one;
  2-(3-(2-Chloro-6-fluorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-
  pyrimidin-4-one;
  2-(3-(2,4-Difluorophenyl) piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-pyrimidin-4-
  one;
  2-(3-(2,6-Difluorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-
  one;
  2-(3-(2,6-Dichlorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-
  one;
  4-one;
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 2\hbox{-}(3\hbox{-}(3\hbox{-}4\hbox{-}{\rm Dimethoxyphenyl}) {\rm piperazin-1-yl})\hbox{-}3\hbox{-}{\rm methyl-6-}(4\hbox{-}{\rm pyridyl})\hbox{-}3H\hbox{-}{\rm pyrimidin-}4\hbox{-}{\rm one};
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- 2-(3-(2,5-Dimethoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3*H*-pyrimidin-4-one;
- 2-(3-(2,6-Dimethoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3*H*-pyrimidin-4-one;
- $2-(3-(2,4-\text{Difluoro-6-methoxyphenyl}) \text{piperazin-1-yl})-3-\text{methyl-6-}(4-\text{pyridyl})-3H-\\ \text{pyrimidin-4-one};$
- 2-(3-(5-Cyano-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3*H*-pyrimidin-4-one;
- $2\text{-}(3\text{-}(4\text{-}Cyano\text{-}2\text{-}methoxyphenyl}) piperazin-1\text{-}yl)-3\text{-}methyl-6\text{-}(4\text{-}pyridyl)-3\textit{H-}pyrimidin-4\text{-}one;}$
- 2-(3-(1-Naphthyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- 2-(3-(2-Naphthyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- $2-(3-(2,3-\text{Dihydrobenzofuran-7-yl}) \\ \text{piperazin-1-yl})-3-\text{methyl-6-}(4-\text{pyridyl})-3H-\\ \text{pyrimidin-4-one};$
- $2\hbox{-}(3\hbox{-}(Benzo furan-2\hbox{-}yl)piperazin-1\hbox{-}yl)\hbox{-}3\hbox{-}methyl-6\hbox{-}(4\hbox{-}pyridyl)\hbox{-}3$$H-pyrimidin-4-one;}$
- (S)-2-(3-(Benzofuran-2-yl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- 2-(3-(4-(Pyrrolidin-1-yl-methyl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- 2-(3-(4-(Pyrrolidin-1-yl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- 2-(3-(2-methoxy-4-(pyrrolidin-1-yl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- 2-(3-(2-methoxy-5-(pyrrolidin-1-yl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- $2-(3-(4-(Phenyl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one; \\ .$

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2\hbox{-}(3\hbox{-}(4\hbox{-}\text{Fluorophenyl})\text{phenyl})\text{piperazin-1-yl})\hbox{-}3\hbox{-}\text{methyl-}6\hbox{-}(4\hbox{-}\text{pyridyl})\hbox{-}3H\hbox{-}
      pyrimidin-4-one;
     2\hbox{-}(3\hbox{-}(4\hbox{-}Wethoxyphenyl)phenyl)piperazin-1-yl)-3-methyl-6\hbox{-}(4\hbox{-}pyridyl)-3H-1-yl)-3-methyl-6
      pyrimidin-4-one;
    \hbox{2-(3-(4-(2-Methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3} H-10-(4-pyridyl)-3-(4-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyridyl)-3-(4-pyri
     pyrimidin-4-one;
    pyrimidin-4-one;
   pyrimidin-4-one;
   2\hbox{-}(4\hbox{-Phenylpiperazin-1-yl})\hbox{-}3\hbox{-methyl-6-}(4\hbox{-pyridyl})\hbox{-}3H\hbox{-pyrimidin-4-one};
  2\hbox{-}(4\hbox{-Benzylpiperazin-1-yl})\hbox{-}3\hbox{-methyl-6-}(4\hbox{-pyridyl})\hbox{-}3H\hbox{-pyrimidin-4-one};
  2-(4-Benzoylpiperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
  \hbox{2-}(4-(1,2-\text{Benzisothiazol-3-yl}) \hbox{piperazin-1-yl})-3-\text{methyl-6-}(4-\text{pyridyl})-3H-
   pyrimidin-4-one;
  2\hbox{-}(4\hbox{-}Methyl\hbox{-}3\hbox{-}phenylpiperazin\hbox{-}1\hbox{-}yl)\hbox{-}3\hbox{-}methyl\hbox{-}6\hbox{-}(4\hbox{-}pyridyl)\hbox{-}3$$H$-pyrimidin\hbox{-}4\hbox{-}one;}
  2-(3-(4-Fluoro-2-methoxyphenyl)-4-methylpiperazin-1-yl)-3-methyl-6-(4-pyridyl)-
  3H-pyrimidin-4-one;
(S)-2-(3-(4-Fluoro-2-methoxyphenyl)-4-methylpiperazin-1-yl)-3-methyl-6-(4-
 pyridyl)-3H-pyrimidin-4-one;
(R)\hbox{-}2\hbox{-}(3\hbox{-}(4\hbox{-}Fluoro\hbox{-}2\hbox{-}methoxyphenyl)\hbox{-}4\hbox{-}methylpiperazin\hbox{-}1\hbox{-}yl)\hbox{-}3\hbox{-}methyl\hbox{-}6\hbox{-}(4\hbox{-}methylpiperazin\hbox{-}1\hbox{-}yl)\hbox{-}3\hbox{-}methylpiperazin\hbox{-}1\hbox{-}yl)\hbox{-}3\hbox{-}methylpiperazin\hbox{-}1\hbox{-}yl)\hbox{-}3\hbox{-}methylpiperazin\hbox{-}1\hbox{-}yl)\hbox{-}3\hbox{-}methylpiperazin\hbox{-}1\hbox{-}yl)\hbox{-}3\hbox{-}methylpiperazin\hbox{-}1\hbox{-}yl)\hbox{-}3\hbox{-}methylpiperazin\hbox{-}1\hbox{-}yl)\hbox{-}3\hbox{-}methylpiperazin\hbox{-}1\hbox{-}yl)\hbox{-}3\hbox{-}methylpiperazin\hbox{-}1\hbox{-}yl)\hbox{-}3\hbox{-}methylpiperazin\hbox{-}1\hbox{-}yl)\hbox{-}3\hbox{-}methylpiperazin\hbox{-}1\hbox{-}yl)\hbox{-}3\hbox{-}methylpiperazin\hbox{-}1\hbox{-}yl)\hbox{-}3\hbox{-}methylpiperazin\hbox{-}1\hbox{-}yl)\hbox{-}3\hbox{-}methylpiperazin\hbox{-}1\hbox{-}yl)\hbox{-}3\hbox{-}methylpiperazin\hbox{-}1\hbox{-}yl)\hbox{-}3\hbox{-}methylpiperazin\hbox{-}1\hbox{-}yl)\hbox{-}3\hbox{-}methylpiperazin\hbox{-}1\hbox{-}yl)\hbox{-}3\hbox{-}methylpiperazin\hbox{-}2\hbox{-}yl)\hbox{-}3\hbox{-}methylpiperazin\hbox{-}3\hbox{-}yl)\hbox{-}3\hbox{-}methylpiperazin\hbox{-}3\hbox{-}yl)\hbox{-}3\hbox{-}methylpiperazin\hbox{-}3\hbox{-}yl)\hbox{-}3\hbox{-}methylpiperazin\hbox{-}3\hbox{-}yl)\hbox{-}3\hbox{-}methylpiperazin\hbox{-}3\hbox{-}yl)\hbox{-}3\hbox{-}methylpiperazin\hbox{-}3\hbox{-}yl)\hbox{-}3\hbox{-}methylpiperazin\hbox{-}3\hbox{-}yl)\hbox{-}3\hbox{-}methylpiperazin\hbox{-}3\hbox{-}yl)\hbox{-}3\hbox{-}methylpiperazin\hbox{-}3\hbox{-}yl)\hbox{-}3\hbox{-}methylpiperazin\hbox{-}3\hbox{-}yl)\hbox{-}3\hbox{-}methylpiperazin\hbox{-}3\hbox{-}yl)\hbox{-}3\hbox{-}methylpiperazin\hbox{-}3\hbox{-}yl)\hbox{-}3\hbox{-}methylpiperazin\hbox{-}3\hbox{-}yl)\hbox{-}3\hbox{-}methylpiperazin\hbox{-}3\hbox{-}yl)\hbox{-}3\hbox{-}methylpiperazin\hbox{-}3\hbox{-}yl)\hbox{-}3\hbox{-}methylpiperazin\hbox{-}3\hbox{-}yl)\hbox{-}3\hbox{-}methylpiperazin\hbox{-}3\hbox{-}yl)\hbox{-}3\hbox{-}methylpiperazin\hbox{-}3\hbox{-}yl)\hbox{-}3\hbox{-}methylpiperazin\hbox{-}3\hbox{-}yl)\hbox{-}3\hbox{-}methylpiperazin\hbox{-}3\hbox{-}yl)\hbox{-}3\hbox{-}methylpiperazin\hbox{-}3\hbox{-}yl)\hbox{-}3\hbox{-}methylpiperazin\hbox{-}3\hbox{-}yl)\hbox{-}3\hbox{-}methylpiperazin\hbox{-}3\hbox{-}yl)\hbox{-}3\hbox{-}methylpiperazin\hbox{-}3\hbox{-}yl)\hbox{-}3\hbox{-}methylpiperazin\hbox{-}3\hbox{-}yl)\hbox{-}3\hbox{-}methylpiperazin\hbox{-}3\hbox{-}yl)\hbox{-}3\hbox{-}methylpiperazin\hbox{-}3\hbox{-}yl)\hbox{-}3\hbox{-}methylpiperazin\hbox{-}3\hbox{-}yl)\hbox{-}3\hbox{-}methylpiperazin\hbox{-}3\hbox{-}yl)\hbox{-}3\hbox{-}3\hbox{-}yl)\hbox{-}3\hbox{-}3\hbox{-}yl)
pyridyl)-3H-pyrimidin-4-one;
2\hbox{-}(4\hbox{-}Acetyl\hbox{-}3\hbox{-}(4\hbox{-}fluoro\hbox{-}2\hbox{-}methoxyphenyl) piperazin\hbox{-}1-yl)\hbox{-}3\hbox{-}methyl\hbox{-}6\hbox{-}(4\hbox{-}pyridyl)\hbox{-}3\hbox{-}methyl\hbox{-}6\hbox{-}(4\hbox{-}pyridyl)\hbox{-}3\hbox{-}methyl\hbox{-}6\hbox{-}(4\hbox{-}pyridyl)\hbox{-}3\hbox{-}methyl\hbox{-}6\hbox{-}(4\hbox{-}pyridyl)\hbox{-}3\hbox{-}methyl\hbox{-}6\hbox{-}(4\hbox{-}pyridyl)\hbox{-}3\hbox{-}methyl\hbox{-}6\hbox{-}(4\hbox{-}pyridyl)\hbox{-}3\hbox{-}methyl\hbox{-}6\hbox{-}(4\hbox{-}pyridyl)\hbox{-}3\hbox{-}methyl\hbox{-}6\hbox{-}(4\hbox{-}pyridyl)\hbox{-}3\hbox{-}methyl\hbox{-}6\hbox{-}(4\hbox{-}pyridyl)\hbox{-}3\hbox{-}methyl\hbox{-}6\hbox{-}(4\hbox{-}pyridyl)\hbox{-}3\hbox{-}methyl\hbox{-}6\hbox{-}(4\hbox{-}pyridyl)\hbox{-}3\hbox{-}methyl\hbox{-}6\hbox{-}(4\hbox{-}pyridyl)\hbox{-}3\hbox{-}methyl\hbox{-}6\hbox{-}(4\hbox{-}pyridyl)\hbox{-}3\hbox{-}methyl\hbox{-}6\hbox{-}(4\hbox{-}pyridyl)\hbox{-}3\hbox{-}methyl\hbox{-}6\hbox{-}(4\hbox{-}pyridyl)\hbox{-}3\hbox{-}methyl\hbox{-}6\hbox{-}(4\hbox{-}pyridyl)\hbox{-}3\hbox{-}methyl\hbox{-}6\hbox{-}(4\hbox{-}pyridyl)\hbox{-}3\hbox{-}methyl\hbox{-}6\hbox{-}(4\hbox{-}pyridyl)\hbox{-}3\hbox{-}methyl\hbox{-}6\hbox{-}(4\hbox{-}pyridyl)\hbox{-}3\hbox{-}methyl\hbox{-}6\hbox{-}(4\hbox{-}pyridyl)\hbox{-}3\hbox{-}methyl\hbox{-}6\hbox{-}(4\hbox{-}pyridyl)\hbox{-}3\hbox{-}methyl\hbox{-}6\hbox{-}(4\hbox{-}pyridyl)\hbox{-}3\hbox{-}methyl\hbox{-}6\hbox{-}(4\hbox{-}pyridyl)\hbox{-}3\hbox{-}methyl\hbox{-}6\hbox{-}(4\hbox{-}pyridyl)\hbox{-}3\hbox{-}methyl\hbox{-}6\hbox{-}(4\hbox{-}pyridyl)\hbox{-}3\hbox{-}methyl\hbox{-}6\hbox{-}(4\hbox{-}pyridyl)\hbox{-}3\hbox{-}methyl\hbox{-}6\hbox{-}(4\hbox{-}pyridyl)\hbox{-}3\hbox{-}methyl\hbox{-}6\hbox{-}(4\hbox{-}pyridyl)\hbox{-}3\hbox{-}methyl\hbox{-}6\hbox{-}(4\hbox{-}pyridyl)\hbox{-}3\hbox{-}methyl\hbox{-}6\hbox{-}(4\hbox{-}pyridyl)\hbox{-}3\hbox{-}methyl\hbox{-}6\hbox{-}(4\hbox{-}pyridyl)\hbox{-}3\hbox{-}methyl\hbox{-}3\hbox{-}methyl\hbox{-}3\hbox{-}methyl\hbox{-}3\hbox{-}methyl\hbox{-}3\hbox{-}methyl]
3H-pyrimidin-4-one;
\hbox{2-}(4-Benzyl-3-(4-fluoro-2-methoxyphenyl) piperazin-1-yl)-3-methyl-6-(4-pyridyl)-1-yl-2-(4-Benzyl-3-(4-fluoro-2-methoxyphenyl) piperazin-1-yl-3-methyl-6-(4-pyridyl)-1-yl-3-methyl-6-(4-pyridyl)-1-yl-3-methyl-6-(4-pyridyl)-1-yl-3-methyl-6-(4-pyridyl)-1-yl-3-methyl-6-(4-pyridyl)-1-yl-3-methyl-6-(4-pyridyl)-1-yl-3-methyl-6-(4-pyridyl)-1-yl-3-methyl-6-(4-pyridyl)-1-yl-3-methyl-6-(4-pyridyl)-1-yl-3-methyl-6-(4-pyridyl)-1-yl-3-methyl-6-(4-pyridyl)-1-yl-3-methyl-6-(4-pyridyl)-1-yl-3-methyl-6-(4-pyridyl)-1-yl-3-methyl-6-(4-pyridyl)-1-yl-3-methyl-6-(4-pyridyl)-1-yl-3-methyl-6-(4-pyridyl)-1-yl-3-methyl-6-(4-pyridyl)-1-yl-3-methyl-6-(4-pyridyl)-1-yl-3-methyl-6-(4-pyridyl)-1-yl-3-methyl-6-(4-pyridyl)-1-yl-3-methyl-6-(4-pyridyl)-1-yl-3-methyl-6-(4-pyridyl)-1-yl-3-methyl-6-(4-pyridyl)-1-yl-3-methyl-6-(4-pyridyl)-1-yl-3-methyl-6-(4-pyridyl)-1-yl-3-methyl-6-(4-pyridyl)-1-yl-3-methyl-6-(4-pyridyl)-1-yl-3-methyl-6-(4-pyridyl)-1-yl-3-methyl-6-(4-pyridyl)-1-yl-3-methyl-6-(4-pyridyl)-1-yl-3-methyl-6-(4-pyridyl)-1-yl-3-methyl-6-(4-pyridyl)-1-yl-3-methyl-6-(4-pyridyl)-1-yl-3-methyl-6-(4-pyridyl)-1-yl-3-(4-pyridyl)-1-yl-3-(4-pyridyl)-1-yl-3-(4-pyridyl)-1-yl-3-(4-pyridyl)-1-yl-3-(4-pyridyl)-1-yl-3-(4-pyridyl)-1-yl-3-(4-pyridyl)-1-yl-3-(4-pyridyl)-1-yl-3-(4-pyridyl)-1-yl-3-(4-pyridyl)-1-yl-3-(4-pyridyl)-1-yl-3-(4-pyridyl)-1-yl-3-(4-pyridyl)-1-yl-3-(4-pyridyl)-1-yl-3-(4-pyridyl)-1-yl-3-(4-pyridyl)-1-yl-3-(4-pyridyl)-1-yl-3-(4-pyridyl)-1-yl-3-(4-pyridyl)-1-yl-3-(4-pyridyl)-1-yl-3-(4-pyridyl)-1-yl-3-(4-pyridyl)-1-yl-3-(4-pyridyl)-1-yl-3-(4-pyridyl)-1-yl-3-(4-pyridyl)-1-yl-3-(4-pyridyl)-1-yl-3-(4-pyridyl)-1-yl-3-(4-pyridyl)-1-yl-3-(4-pyridyl)-1-yl-3-(4-pyridyl)-1-yl-3-(4-pyridyl)-1-yl-3-(4-pyridyl)-1-yl-3-(4-pyridyl)-1-yl-3-(4-pyridyl)-1-yl-3-(4-pyridyl)-1-yl-3-(4-pyridyl)-1-yl-3-(4-pyridyl)-1-yl-3-(4-pyridyl)-1-yl-3-(4-pyridyl)-1-yl-3-(4-pyridyl)-1-yl-3-(4-pyridyl)-1-yl-3-(4-pyridyl)-1-yl-3-(4-pyridyl)-1-yl-3-(4-pyridyl)-1-yl-3-(4-pyridyl)-1-yl-3-(4-pyridyl)-1-yl-3-(4-pyridyl)-1-yl-3-(4-pyridyl)-1-yl-3-(4-pyridyl)-1-yl-3-(4-pyridyl)-1-y
3H-pyrimidin-4-one;
2-(4-Benzyl-3-(ethoxycarbonyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-
pyrimidin-4-one;
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2\hbox{-}(4\hbox{-methyl-}3\hbox{-}(1\hbox{-naphthyl}) piperazin-1\hbox{--yl})\hbox{-}3\hbox{-methyl-}6\hbox{-}(4\hbox{-pyridyl})\hbox{-}3H\hbox{-pyrimidin-}4\hbox{--yl})
     one;
    2\hbox{-}(5,5\hbox{-Dimethyl-3-}(2\hbox{-methoxyphenyl}) piperazin-1\hbox{-yl})\hbox{-}3\hbox{-methyl-6-}(4\hbox{-pyridyl})\hbox{-}3H\hbox{-}4
    pyrimidin-4-one;
   2\hbox{-}(3\hbox{-Phenylpiperidin-1-yl})\hbox{-}3\hbox{-methyl-6-}(4\hbox{-pyridyl})\hbox{-}3H\hbox{-pyrimidin-4-one};
   2\hbox{-}(3\hbox{-}(4\hbox{-Fluorophenyl}) piperidin-1\hbox{-}yl)-3\hbox{-methyl-}6\hbox{-}(4\hbox{-pyridyl})-3H\hbox{-pyrimidin-}4\hbox{-one};
   2\hbox{-}(3\hbox{-}(3\hbox{-}Fluorophenyl) \texttt{piperidin-1-yl})\hbox{-}3\hbox{-}methyl\hbox{-}6\hbox{-}(4\hbox{-}pyridyl)\hbox{-}3\textit{H-pyrimidin-4-one};
   2\hbox{-}(3\hbox{-}(2\hbox{-}Fluorophenyl) piperidin-1-yl)-3\hbox{-}methyl-6\hbox{-}(4\hbox{-}pyridyl)-3\emph{\textit{H}-}pyrimidin-4\hbox{-}one;
   2\hbox{-}(3\hbox{-}(4\hbox{-}Chlorophenyl) piperidin-1-yl)-3\hbox{-}methyl-6\hbox{-}(4\hbox{-}pyridyl)-3\emph{H-}pyrimidin-4-one;}
  2\hbox{-}(3\hbox{-}(4\hbox{-Bromophenyl}) piperidin-1\hbox{-}yl)-3\hbox{-methyl-}6\hbox{-}(4\hbox{-pyridyl})-3H\hbox{-pyrimidin-}4\hbox{-one};
  2-(3-(4-Methoxyphenyl)piperidin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
  2\hbox{-}(3\hbox{-}(3\hbox{-}Methoxyphenyl) piperidin-1-yl)-3\hbox{-}methyl-6\hbox{-}(4\hbox{-}pyridyl)-3\emph{H-}pyrimidin-4-one;}
  2\hbox{-}(3\hbox{-}(2\hbox{-}Methoxyphenyl) piperidin-1-yl)-3\hbox{-}methyl-6\hbox{-}(4\hbox{-}pyridyl)-3H\hbox{-}pyrimidin-4-one;}
  2\hbox{-}(3\hbox{-}(4\hbox{-}((Pyrrolidin-1\hbox{-}yl)methyl)phenyl)piperidin-1\hbox{-}yl)\hbox{-}3\hbox{-}methyl-6\hbox{-}(4\hbox{-}pyridyl)\hbox{-}3H\hbox{-}2)
  pyrimidin-4-one;
 (S)-2-(3-(4-(Pyrrolidin-1-yl-methyl)phenyl)piperidin-1-yl)-3-methyl-6-(4-pyridyl)-
  3H-pyrimidin-4-one;
 (R)-2-(3-(4-(Pyrrolidin-1-yl-methyl)phenyl)piperidin-1-yl)-3-methyl-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-(4-pyridyl)-6-
 3H-pyrimidin-4-one;
 2\hbox{-}(3\hbox{-Hydroxy-3-phenylpiperidin-1-yl)-3-methyl-6-(4-pyridyl)-3$$H$-pyrimidin-4-one;}
2\hbox{-}(3\hbox{-Phenylpiperazin-1-yl})\hbox{-}3\hbox{-methyl-6-}(4\hbox{-pyrimidyl})\hbox{-}3H\hbox{-pyrimidin-4-one};
2\hbox{-}(3\hbox{-}(4\hbox{-}Fluorophenyl) piperazin-1-yl)-3\hbox{-}methyl-6\hbox{-}(4\hbox{-}pyrimidyl)-3$$H$-pyrimidin-4-one;
2-(3-(3-Fluorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3\textit{H-pyrimidin-4-one};
2\hbox{-}(3\hbox{-}(2\hbox{-}Fluorophenyl) piperazin-1-yl)-3\hbox{-}methyl-6\hbox{-}(4\hbox{-}pyrimidyl)-3$$H$-pyrimidin-4-one;
one;
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 $2\hbox{-}(3\hbox{-}(3\hbox{-}Chlorophenyl) piperazin-1-yl)-3\hbox{-}methyl-6\hbox{-}(4\hbox{-}pyrimidyl)-3$$H$-pyrimidin-4-yl)-3-methyl-6-(4-pyrimidyl)-3$$H$-pyrimidin-4-yl)-3-methyl-6-(4-pyrimidyl)-3$$H$-pyrimidyl-3$$H$-pyrimidyl-4-yl)-3$$H$-pyrimidyl-4-yl)-3$$H$-pyrimidyl-4-yl]-3$$H$-pyrimidyl-4$$H$-pyrim$

one;

- 2-(3-(2-Chlorophenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- 2-(3-(4-Bromophenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- 2-(3-(3-Bromophenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one;
- 2-(3-(2-Bromophenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- 2-(3-(4-Cyanophenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- 2-(3-(3-Cyanophenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one;
- 2-(3-(2-Cyanophenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- 2-(3-(4-Methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- 2-(3-(3-Methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one;
- 2-(3-(2-Methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one;
- 2-(3-(2-Ethoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- 2-(3-(6-Fluoro-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- 2-(3-(5-Fluoro-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- 2-(3-(4-Fluoro-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;

(S) - 2 - (3 - (4 - Fluoro - 2 - methoxyphenyl) piperazin - 1 - yl) - 3 - methyl - 6 - (4 - pyrimidyl) - 3 H-pyrimidin - 4 - one;

- $(R)\hbox{-}2\hbox{-}(3\hbox{-}(4\hbox{-}Fluoro\hbox{-}2\hbox{-}methoxyphenyl)piperazin-1\hbox{-}yl)\hbox{-}3\hbox{-}methyl-6\hbox{-}(4\hbox{-}pyrimidyl)\hbox{-}3H-pyrimidin-4\hbox{-}one;}$
- $2\hbox{-}(3\hbox{-}(4\hbox{-}Chloro\hbox{-}2\hbox{-}methoxyphenyl) piperazin-1-yl)-3\hbox{-}methyl-6\hbox{-}(4\hbox{-}pyrimidyl)-3$$H-pyrimidin-4-one;$
- $2\hbox{-}(3\hbox{-}(5\hbox{-Bromo-}2\hbox{-methoxyphenyl}) piperazin-1\hbox{-yl})-3\hbox{-methyl-}6\hbox{-}(4\hbox{-pyrimidyl})-3H-pyrimidin-4\hbox{-one};$
- $2\hbox{-}(3\hbox{-}(2,6\hbox{-Dichlorophenyl}) \hbox{piperazin-1-yl})\hbox{-}3\hbox{-methyl-6-}(4\hbox{-pyridyl})\hbox{-}3$$H$-pyrimidin-4-one; \\$
- 2-(3-(2,4-Dimethoxyphenyl) piperazin-1-yl)-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one;
- $2\hbox{-}(3\hbox{-}(3\hbox{-}4\hbox{-}{\rm Dimethoxyphenyl}) {\rm piperazin-1-yl})\hbox{-}3\hbox{-}{\rm methyl-6-}(4\hbox{-}{\rm pyrimidyl})\hbox{-}3H\hbox{-}{\rm pyrimidin-4-one};$
- $2\hbox{-}(3\hbox{-}(2,5\hbox{-Dimethoxyphenyl}) \hbox{piperazin-1-yl})\hbox{-}3\hbox{-methyl-}6\hbox{-}(4\hbox{-pyrimidyl})\hbox{-}3H\hbox{-pyrimidin-}4\hbox{-}one;$
- $2\hbox{-}(3\hbox{-}(2,6\hbox{-Dimethoxyphenyl}) piperazin-1\hbox{-}yl)-3\hbox{-methyl-}6\hbox{-}(4\hbox{-pyrimidyl})-3H-pyrimidin-4\hbox{-}one; \\ .$
- 2-(3-(2,4-Difluoro-6-methoxyphenyl) piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- $2\hbox{-}(3\hbox{-}(1\hbox{-Naphthyl}) piperazin-1\hbox{-}yl)\hbox{-}3\hbox{-}methyl-6\hbox{-}(4\hbox{-}pyrimidyl)\hbox{-}3H\hbox{-}pyrimidin-4\hbox{-}one;$
- $2\hbox{-}(3\hbox{-}(2\hbox{-Naphthyl}) piperazin-1\hbox{-}yl)-3\hbox{-methyl-6-}(4\hbox{-pyrimidyl})-3H\hbox{-pyrimidin-4-one};$
- $2\text{-}(3\text{-}(2,3\text{-}\mathrm{Dihydrobenzofuran-7-yl}) piperazin-1\text{-}yl)-3\text{-}methyl-6\text{-}(4\text{-}pyrimidyl)-3} \textit{H-pyrimidin-4-one}; \\$
- $2\text{-}(3\text{-}(Benzofuran-2\text{-}yl)piperazin-1\text{-}yl)-3\text{-}methyl-6\text{-}(4\text{-}pyrimidyl)-3} \textit{H-}pyrimidin-4\text{-}one; \\$
- 2-(3-(4-(Pyrrolidin-1-yl-methyl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;

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2-(3-(4-(Pyrrolidin-1-yl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
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- 2-(3-(2-methoxy-4-(pyrrolidin-1-yl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- 2-(3-(2-methoxy-5-(pyrrolidin-1-yl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- 2-(3-(4-(Phenyl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- 2-(3-(4-(4-Fluorophenyl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- $2\text{-}(3\text{-}(4\text{-}(4\text{-}Methoxyphenyl)phenyl)piperazin-1-yl)-3\text{-}methyl-6\text{-}(4\text{-}pyrimidyl)-3} \textit{H-} yrimidin-4\text{-}one;$
- 2-(3-(4-(2-Methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- $2\text{-}(3\text{-}(4\text{-}(\text{Morpholin-}4\text{-}yl)\text{phenyl}) \\ \text{piperazin-}1\text{-}yl)\text{-}3\text{-}methyl\text{-}6\text{-}(4\text{-}pyrimidyl)\text{-}3H\text{-}pyrimidin-}4\text{-}one;$
- 2-(3-(4-(4-Methylpiperazin-1-yl)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- 2-(3-(4-Fluoro-2-methoxyphenyl)-4-methylpiperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3*H*-pyrimidin-4-one;
- (S)-2-(3-(4-Fluoro-2-methoxyphenyl)-4-methylpiperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- (R)-2-(3-(4-Fluoro-2-methoxyphenyl)-4-methylpiperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- 2-(4-Acetyl-3-(4-fluoro-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- 2-(4-Benzyl-3-(4-fluoro-2-methoxyphenyl)piperazin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;

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2-(4-(4-Fluorophenyl)piperidin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
2-(4-Cyano-4-phenylpiperidin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
2-(4-(6-Fluorobenofuran-3-yl)piperidin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
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- $2\hbox{-}(3\hbox{-}(Benzoisoxazol\hbox{-}3\hbox{-}yl)piperidin\hbox{-}1\hbox{-}yl)\hbox{-}3\hbox{-}methyl\hbox{-}6\hbox{-}(4\hbox{-}pyrimidyl)\hbox{-}3$$$H$-pyrimidin\hbox{-}4$-one;}$
- (S)-2-(3-(Benzoisoxazol-3-yl)piperidin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- (R)-2-(3-(Benzoisoxazol-3-yl)piperidin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- 2-(3-(6-Fluorobenzoisoxazol-3-yl)piperidin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- 2-(4-(6-Fluorobenzoisoxazol-3-yl) piperidin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one;
- 2-(4-(5-Methylbenzofuran-3-yl) piperidin-1-yl)-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one; and
- $2\hbox{-}(4\hbox{-}(6\hbox{-Fluorobenzothiophene-3-yl}) piperidin-1\hbox{--yl})\hbox{-}3\hbox{--methyl-}6\hbox{-}(4\hbox{--pyrimidyl})\hbox{-}3H-pyrimidin-4\hbox{--one}.$

Salts of the aforementioned preferred compound, and solvates or hydrates of the aforementioned compounds and salts thereof are also preferred.

The 3-substituted-4-pyrimidone compounds represented by the aforementioned formula (I) can be prepared, for example, according to the method explained below.

(In the above scheme, definitions of \mathbf{Q} , \mathbf{R} , \mathbf{X} and \mathbf{Y} are the same as those already described.)

The 2-thiopyrimidone represented by the above formula (III) is prepared easily by a modification of the method described in EP 354,179. The reaction may be carried out in the presence of a base such as sodium hydroxide, potassium hydroxide, sodium methoxide, sodium ethoxide, potassium tert-butoxide, sodium carbonate, sodium hydrogencarbonate, potassium carbonate, triethylamine, diisopropylethylamine, and 1,8-diazabicyclo[5,4,0]undec-7-en for 1 to 100 hours at a suitable temperature ranging from 0 $^{\circ}$ C to 200 $^{\circ}$ C under nitrogen or argon atmosphere or under ordinary air to afford the desired compound (III). Examples of a solvent for the reactions include, for example, alcoholic solvent such as methanol, ethanol, 1-propanol, isopropanol, tert-butanol, ethylene glycol, propylene glycol; etheric solvents such as diethyl ether, tert-butyl methyl ether, tetrahydrofuran, isopropyl ether; hydrocarbonic solvents such as benzene, toluene, xylene; halogenated hydrocarbonic solvents such as dichloromethane, chloroform, dichloroethane; aprotic polar solvents such as formamide, N,N-dimethylformamide, N,N-dimethylacetamide, N-methylpyrrolidone, dimethyl sulfoxide, sulfolane, hexamethylphosphoric triamide, water and the like. Generally, a single solvent or a mixture of two or more solvents may be used so as to be suitable to a base used.

Then the 2-thiopyrimidone derivative (III) is transformed into the 2-chloropyrimidone (IV) by a chlorinating agent. The reaction time and temperature depend on the chlorinating agent used. Examples of a chlorinating agent for the reactions include, for example, thionyl chloride, thionyl chloride and

dimethylformamide, phosphorus oxychloride, phosphorus oxychloride and dimethylformamide, oxalyl chloride, phosphorous oxychloride and dimethylformamide, and phosphorus pentachloride.

The amine represented by the above formula (V) may be prepared by a modification of the method described in Japanese Patent Unexamined Publication [Kokai] No. 52-139085/1977 or according to well-known methods of one skilled in the art.

Then the chloride derivative (IV) is allowed to react with the amine (V) or salts thereof in the presence of a base such as sodium hydroxide, potassium hydroxide, sodium methoxide, sodium ethoxide, sodium carbonate, sodium hydrogencarbonate, potassium carbonate, triethylamine, diisopropylethylamine, and 1,8-diazabicyclo[5,4,0]undec-7-en for 0.1 to 100 hours at a suitable temperature ranging from 0 °C to 200 °C under nitrogen or argon atmosphere or under ordinary air to afford the desired compound (II).

Examples of a solvent for the reactions include, for example, alcoholic solvent such as methanol, ethanol, 1-propanol, isopropanol, tert-butanol, ethylene glycol, propylene glycol; etheric solvents such as diethyl ether, tert-butyl methyl ether, tetrahydrofuran, isopropyl ether; hydrocarbonic solvents such as benzene, toluene, xylene; halogenated hydrocarbonic solvents such as dichloromethane, chloroform, dichloroethane; aprotic polar solvents such as formamide, N,N-dimethylformamide, N,N-dimethylacetamide, N-methylpyrrolidone, dimethyl sulfoxide, sulfolane, hexamethylphosphoric triamide, water and the like. Generally, a single solvent or a mixture of two or more solvents may be used so as to be suitable to a base used.

The compounds of the present invention have inhibitory activity against TPK1, and they inhibit TPK1 activity in neurodegenerative diseases like Alzheimer disease, thereby suppress the neurotoxicity of A β and the formation of PHF and inhibit the nerve cell death. Accordingly, the compounds of the present invention

are useful as an active ingredient of a medicament which radically enables preventive and/or therapeutic treatment of Alzheimer disease. In addition, the compounds of the present invention are also useful as an active ingredient of a medicament for preventive and/or therapeutic treatment of ischemic cerebrovascular accidents, Down syndrome, cerebral bleeding due to solitary cerebral amyloid angiopathy, progressive supranuclear palsy, subacute sclerosing panencephalitis, postencephalitic parkinsonism, pugilistic encephalosis, Guam parkinsonism-dementia complex, Lewy body disease, Pick's disease, corticobasal degeneration frontotemporal dementia, vascular dementia, acute stroke and traumatic injuries, brain and spinal cord trauma, peripheral neuropathies, retinopathies and glaucoma, non-insulin dependent diabetes (such as diabetes type II), and obesity, manic depressive illness, schizophrenia, alopecia, cancers such as breast cancer, non-small cell lung carcinoma, thyroid cancer, T or B-cell leukemia and several virus-induced tumors.

As the active ingredient of the medicament of the present invention, a substance may be used which is selected from the group consisting of the compound represented by the aforementioned formula (I) and pharmacologically acceptable salts thereof, and solvates thereof and hydrates thereof. The substance, per se, may be administered as the medicament of the present invention, however, it is desirable to administer the medicament in a form of a pharmaceutical composition which comprises the aforementioned substance as an active ingredient and one or more of pharmaceutical additives. As the active ingredient of the medicament of the present invention, two or more of the aforementioned substance may be used in combination. The above pharmaceutical composition may be supplemented with an active ingredient of other medicament for the treatment of, for example, Alzheimer disease, vascular dementia, acute stroke and traumatic injuries, brain and spinal cord trauma, peripheral neuropathies, retinopathies and glaucoma, non-insulin dependent diabetes (such as diabetes type II), and obesity, manic depressive illness,

schizophrenia, alopecia, cancers such as breast cancer, non-small cell lung carcinoma, thyroid cancer, T or B-cell leukemia and several virus-induced tumors.

A type of the pharmaceutical composition is not particularly limited, and the composition may be provided as any formulation for oral or parenteral administration. For example, the pharmaceutical composition may be formulated, for example, in the form of pharmaceutical compositions for oral administration such as granules, fine granules, powders, hard capsules, soft capsules, syrups, emulsions, suspensions, solutions and the like, or in the form of pharmaceutical compositions for parenteral administrations such as injections for intravenous, intramuscular, or subcutaneous administration, drip infusions, transdermal preparations, transmucosal preparations, nasal drops, inhalants, suppositories and the like. Injections or drip infusions may be prepared as powdery preparations such as in the form of lyophilized preparations, and may be used by dissolving just before use in an appropriate aqueous medium such as physiological saline. Sustained-release preparations such as those coated with a polymer may be directly

administered intracerebrally.

Types of pharmaceutical additives used for the manufacture of the pharmaceutical composition, content rations of the pharmaceutical additives relative to the active ingredient, and methods for preparing the pharmaceutical composition may be appropriately chosen by those skilled in the art. Inorganic or organic substances, or solid or liquid substances may be used as pharmaceutical additives. Generally, the pharmaceutical additives may be incorporated in a ratio ranging from 1% by weight to 90% by weight based on the weight of an active ingredient.

Examples of excipients used for the preparation of solid pharmaceutical compositions include, for example, lactose, sucrose, starch, talc, cellulose, dextrin, kaolin, calcium carbonate and the like. For the preparation of liquid compositions for oral administration, a conventional inert diluent such as water or a vegetable oil

may be used. The liquid composition may contain, in addition to the inert diluent, auxiliaries such as moistening agents, suspension aids, sweeteners, aromatics, colorants, and preservatives. The liquid composition may be filled in capsules made of an absorbable material such as gelatin. Examples of solvents or suspension mediums used for the preparation of compositions for parenteral administration, e.g. injections, suppositories, include water, propylene glycol, polyethylene glycol, benzyl alcohol, ethyl oleate, lecithin and the like. Examples of base materials used for suppositories include, for example, cacao butter, emulsified cacao butter, lauric lipid, witepsol.

Dose and frequency of administration of the medicament of the present invention are not particularly limited, and they may be appropriately chosen depending on conditions such as a purpose of preventive and/or therapeutic treatment, a type of a disease, the body weight or age of a patient, severity of a disease and the like. Generally, a daily dose for oral administration to an adult may be 0.01 to 1,000 mg (the weight of an active ingredient), and the dose may be administered once a day or several times a day as divided portions, or once in several days. When the medicament is used as an injection, administrations may preferably be performed continuously or intermittently in a daily dose of 0.001 to 100 mg (the weight of an active ingredient) to an adult.

Examples

The present invention will be explained more specifically with reference to examples. However, the scope of the present invention is not limited to the following examples. The compound numbers in the examples correspond to those in the table above.

Reference Example 1: Synthesis of 2-mercapto-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one

A solution of ethyl 3-oxo-3-(4-pyridyl)propionate (29.0 g, 150 mmol), N-methyl thiourea (40.6 g, 450 mmol) and 1,8-diazabicyclo[5,4,0]-7-undecene (22.4 ml, 150 mmol) was refluxed for 4 hours and the solution of methanesulfonic acid (14.4 g, 150 mmol) in water (50 ml) was added after cooling by ice-water. The precipitate was washed with water, filtered and dried to give the title compound (23.7 g, 72%).

¹H-NMR (DMSO-d₆) δ : 3.58(s, 3H), 6.40(s, 1H), 7.72(dd, J=1.8, 4.5Hz, 2H), 8.73(dd, J=1.5, 4.8Hz, 2H), 12.92(brd, 1H).

Reference Example 2: Synthesis of 2-chloro-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one

Phosphorous oxychloride (26.11g, 170 mmol) was added to dimethylformamide(180 ml) and stirred 20 min. 2-Mercapto-3-methyl-6-(4-pyridyl)-pyrimidine-4-one (24.15 g, 110 mmol) was added to the solution and stirred 5 min and then stirred at 70℃ for 2 hours. Ethyl acetate (630 ml) was added to the ice-cooled solution and precipitate was collected by filtration after stirring for 20 minutes. After drying, the precipitate was dissolved in water (400 ml) and pH was adjusted to 10 by using aqueous sodium hydroxide. The precipitate was washed with water, filtered and dried to give the title compound (18.82 g, 77%).

¹H-NMR (CDCl₃) δ: 3.72(s, 3H), 6.90(s, 1H), 7.78(dd, J=1.7, 4.5Hz, 2H), 8.75(dd, J=1.6, 4.5Hz, 2H).

Reference Example 3: Synthesis of 2-mercapto-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one

A solution of ethyl 3-oxo-3-(4-pyrimidyl)propionate (34.1 g, 176 mmol), N-methyl thiourea (47.5 g, 527 mmol) and 1,8-diazabicyclo[5,4,0]-7-undecene (26.3 ml, 176 mmol) in ethanol (340 ml) was refluxed for 2 hours and the solution of methanesulfonic acid (16.9 g, 176 mmol) in water (70 ml) was added after cooling by

ice-water. The precipitate was washed with water, filtered and dried to give the title compound (30.2 g, 78%).

¹H-NMR (DMSO-d₆) δ : 3.56(s, 3H), 6.88(s, 1H), 8.24(dd, J=1.2, 5.4 Hz, 2H), 9.05 (dd, J=5.4 Hz, 1H), 11.94(s, 1H).

Reference Example 4: Synthesis of 2-chloro-3-methyl-6-(4-pyrimidyl)-3H-pyrimidin-4-one

Phosphorous oxychloride (4.60 g, 30 mmol) was added to dimethylformamide(32 ml) and stirred for 20 min at 0° C. 2-Mercapto-3-methyl-6-(4-pyrimidyl)-3H-pyrimidine-4-one(4.40 g, 20 mmol) was added to the solution and stirred 5 min and then stirred at 70° C for 2 hours. The reaction mixture was poured into ice water, neutralized by solid potassium carbonate, and extracted with ethyl acetate. The organic layer was washed with brine, dried over sodium sulfate, and evaporated under reduced pressure. Purification of the residue by silica gel chromatography (ethyl acetate) gave the title compound (1.20 g, 27%).

1H-NMR (CDCl₃) $\delta: 3.74(s, 3H), 7.56(s, 1H), 8.18(d, J=5.1 Hz, 1H), 8.92(d, J=5.1 Hz, 1H), 9.30(s, 1H).$

MS[M+H]+: 223.

Example 1: Synthesis of 2-(2-(4-fluoro-2-methoxyphenyl)piperazin-4-yl)-3-methyl-6-(4-pyridyl)-3*H*-pyrimidin-4-one dihydrochloride (No. XA468)

A solution of 2-bromo-5-fluoroanisole (11.8 g, 57.6 mmol) in tetrahydrofuran (60 ml) was dropped into the magnesium (1.40 g, 57.6 mmol) in refluxed tetrahydrofuran (32 ml) containing small amount of 1,2-dibromoethane and refluxed for 15 min. After addition of tetrehydrofuran (50 ml), the solution was cooled to -78 °C and diethyl oxalate (7.41 g, 50.7 mmol) in diethyl ether (50 ml) was dropped into the solution. After stirring at same temperature for 30 min, the solution was warmed to -10°C and 1N aqueous hydrogen chloride (50 ml) and water

were added. Organic layer was extracted with diethyl ether, washed with brine and dried over magnesium sulfate. After removal of the solvent under reduced pressure, purification of the residue by silica gel column chromatography (eluent: hexane/ethyl acetate = 5/2) gave ethyl 2-(4-fluoro-2-methoxyphenyl)-2-oxoacetate (6.80g, 59%)

¹H-NMR (CDCl₃) δ : 1.40(3H, t, J=7.1 Hz),3.87(3H, s), 4.89(2H, q, J=7.1Hz), 6.68(1H, d, J=10.5 Hz), 6.77-6.81(1H, m), 7.91-7.95(1H, m).

Ethylenediamine (0.60 g, 10.0 mmol) was added to a solution of ethyl 2-(4-fluoro-2-methoxyphenyl)-2-oxoacetate (2.26 g, 10.0 mmol) in ethanol(30 ml) and refluxed 4 hr. After removal of the solvent under reduced pressure, residue was washed with ethanol-diethyl ether to give 5,6-dihydro-3-(4-fluoro-2-methoxyphenyl)pyrazinone (1.76 g, 79%).

¹H-NMR (CDCl₃) δ : 3.50-3.56 (2H, m), 3.81 (3H, s), 3.88-3.92 (2H, m), 6.65(1H, d, J=11.0 Hz), 6.70-6.76 (1H, m), 6.89(1H, bs), 7.36-7.40(1H, m).

5,6-Dihydro-3-(4-fluoro-2-methoxyphenyl)pyrazinone was added to the solution of lithium aluminium hydride (0.46 g, 12 mmol) in diethyl ether (25 ml) and refluxed for 6 hr. Water (0.48 ml), 15% sodium hydroxide solution (0.48 ml) and again water (1.21 ml) were added to the ice-cooled solution and the precipitate was filtered and washed with dichloromethane. Combined organic layer was evaporated to give 2-(4-fluoro-2-methoxyphenyl)piperazine (0.83 g, 99%).

¹H-NMR (CDCl₃) δ : 2.02(2H, s), 2.57-2.63 (1H, m), 2.80-2.89 (1H, m), 2.92-2.99 (2H, m), 3.06-3.12 (2H, m), 3.80(3H, s), 4.06 (1H, d, J=10.0 Hz), 6.56-6.65 (2H, m), 7.40 (1H, t, J=7.8 Hz).

2-Chloro-3-methyl-6-(4-pyridyl)-pyrimidin-4-one (222 mg, 1.0 mmol) was added to an ice-cooled solution of 2-(4-fluoro-2-methoxyphenyl)piperazine (210 mg, 1.0 mmol), triethylamine (0.15 ml, 1.1 mmol) in N,N-dimethylformamide (10 ml) and stirred at that temperature for 1 hr and then at room temperature for 2 hr. Next day, reaction was quenched by ice-water and the filtrate was washed with

water and dried to give 2-(2-(4-fluoro-2-methoxyphenyl)piperazin-4-yl)-3-methyl-6-(4-pyridyl)-pyrimidin-4-one (246 mg, 62%).

¹H-NMR (CDCl₃) δ : 2.89-2.96 (1H, m), 3.19-3.31 (3H, m), 3.59 (3H, s), 3.62-3.74 (2H, m), 3.85 (3H, s), 4.39-4.44 (1H, m), 6.63-6.71 (2H, m), 6.67 (1H, s), 7.51-7.55 (1H, m), 7.81 (2H, dd, J=1.7, 4.6 Hz), 8.71 (2H, dd, J=1.7, 4.6 Hz).

4N Hydrogen chloride in 1,4-dioxane (0.4 ml) was added to the solution of 2-(2-(4-fluoro-2-methoxyphenyl)piperazin-4-yl)-3-methyl-6-(4-pyridyl)-pyrimidin-4-one (217 mg, 0.6 mmol) in dichloromethane (5 ml) and stirred for 15 min. After addition of diethyl ether, filtration and wash with diethyl ether and dryness gave the title compound (260 mg, quant.).

Example 2: Synthesis of 2-(2-(4-methoxyphenyl)-piperazine-4-yl)-3-methyl-6-(4-pyridyl)pyrimidin-4-one dihydrochloride (No. XA393)

Dimethylslufoxide (50 ml) solution of 4-methyoxyphenacylbromide (9.94 g, 43.4 mmol) and water (1.6 ml, 88.8 mmol) were stirred at 50°C for 2.5 hr. Water was added and the solution was extracted with ethyl acetate 3 times and washed with brine and then dried over sodium sulfate. Removal of the solvent gave 4-methoxyphenylglyoxal (8.30 g, quant.).

 $^{1}\text{H-NMR}$ (DMSO) δ : 3.84 (3H, s), 6.60-6.69 (1H, m), 7.04 (2H, d, J=8.8 Hz), 8.05 (2H, d, J=9.1 Hz).

Methanol (5 ml) solution of ethylenediamine (3.74 g, 62.29 mmol) was added to the ice-cooled solution of 4-methoxyphenylglyoxal (8.30 g, 45.5 mmol) in methanol (100 ml) and tetrahydrofuran (50 ml) and stirred for 10 min. After cooling to 0°C, sodium tetrahydroborate (6.14 g, 162.2 mmol) and additional methanol (50 ml) was added and stirred overnight. After removal of the solvent, aqueous sodium hydroxide was added and was extracted with dichloromethane three times and washed with brine and dried over sodium sulfate. After removal of the solvent, purification of the residue by silica gel column chromatography (eluent;

dichloromethane/ethanol/diethylamine = 20/2/1) gave 2-(4-methoxypheny)-piperazine (3.96 g, 45%).

¹H-NMR (CDCl₃) δ : 2.69(1H, dd, J=10.3, 11.9 Hz), 2.80-3.01(4H, m), 3.07-3.11 (1H, m), 3.68-3.73(1H, m), 3.79(3H, s), 6.84-6.88 (2H, m), 7.27-7.32 (2H, m).

A solution of triethylamine (697 mg, 6.9 mmol), 2-(4-methoxyphenyl)piperazine (430 mg, tetrahydrofuran (10 ml) was stirred at room temperature for 30
min and at 50°C for 3 hr. Solvent was removed under reduced pressure, and 1N
aqueous sodium hydroxide solution was added to the residue and extracted by
dichloromethane three times and washed with brine and dried over sodium sulfate.
After removal of the solvent under reduced pressure, the residue was purified by
silica gel column chromatography (eluent; dichloromethane/ethanol = 10/1) to give
2-(2-(4-methoxyphenyl)-piperazine-4-yl)-3-methyl-6-(4-pyridyl)pyrimidin-4-one
(594 mg, 76%)

¹H-NMR (CDCl₃) δ: 3.02 (1H, dd, J=10.8, 12.7 Hz), 3.18-3.25 (3H, m), 3.55 (3H, s), 3.57-3.67 (2H, m), 3.82 (3H, s), 3.98(1H, dd, J=2.7, 10.8 Hz), 6.67 (1H, s), 6.92 (2H, d, J=8.7 Hz), 7.37 (2H, d, J=8.7 Hz), 7.80 (2H, d, J=6.0 Hz), 8.71 (2H, d, J=6.0 Hz).

4N Hydrogen chloride in ethyl acetate (5 ml) was added to the solution of 2-(2-(4-methoxyphenyl)-piperazine-4-yl)-3-methyl-6-(4-pyridyl)pyrimidin-4-one (594 mg, 1.6 mmol) in dichloromethane (5 ml) and stirred for 1 hr. Wash with ethyl acetate after removal of the solvent and dryness gave the title compound (683 mg, 96%).

Example 3: Synthesis of 2-(2-(4-chlorophenyl)-piperazine-4-yl)-3-methyl-6-(4-pyridyl)pyrimidin-4-one hydrochloride (No. XA371)

Mixture of methyl (4-chlorophenyl)acetate (5.10 g, 27.6 mmol) and N-bromosuccinimide (5.16 g, 29 mmol) in carbon tetrachloride was treated by Hg lamp. After filtration, solvent was removed under reduced pressure and the residue was dissolved in methanol. Ethylenediamine (2.03 ml, 30.4 mmol) and

triethylamine (2.06 ml, 14.8 mmol) and di-tert-butyldicarbonate (3.10 ml, 13.5 mmol) were added to the solution of 3-(4-chlorophenyl)piperazin-2-one (2.60 g, 12.3 mmol) in dichloromethane (100 ml) and stirred. The reaction mixture was washed with 1N aqueous hydrogen chloride, water, brine and then dried. After removal of the solvent under reduced pressure, residue was purified by silica gel column chromatography to give 4-(tert-butoxycarbonyl)-3-(4-chlorophenyl)-piperazin-2-one.

¹H-NMR (CDCl₃) δ: 1.44 (9H, s), 3.21-3.32 (2H, m), 3.48 (1H, m), 4.04 (1H, brs), 5.66 (1H, brs), 7.10 (1H, brs), 7.30-7.38 (4H, m).

Solution of 4-(tert-butoxycarbonyl)-3-(4-chlorophenyl)-piperazin-2-one (500 mg, 1.6 mmol) and acetic acid (929 μ l, 16 mmol) were added to a refluxed solution of sodium borohydride (608 mg, 16 mmol) in 1,4-dioxane (5 ml) and reflux was continued. The reaction was quenched by water and extracted with dichloromethane and washed with brine and dried. After removal of the solvent, residue was purified by silica gel column chromatography to give 4-(tert-butoxycarbonyl)-3-(4-chlorophenyl)piperazine (330 mg, 69%).

1H-NMR (CDCl₃) δ : 1.46(9H, s), 2.76-2.99(3H, m), 3.13(1H, dd, J=13.0 Hz, 4.3 Hz), 3.45-3.49(2H, m), 3.92(1H, m), 5.15(1H, s), 7.27-7.33(4H, m).

A solution of 4-(tert-butoxycarbonyl)-3-(4-chlorophenyl)piperazine (330 mg, 1.1 mmol), 2-chloro-3-methyl-6-(4-pyridyl)pyrimidin-4-one (246 mg, 1.1 mmol) and triethylamine (170 μ 1, 1.22 mmol) in tetrahydrofuran were refluxed. Usual workup and purification by silica gel column chromatography gave 2-(1-(tert-butoxy-carbonyl)-2-(4-chlorophenyl)-piperazine-4-yl)-3-methyl-6-(4-pyridyl)pyrimidin-4-one (500 mg, 93%).

¹H-NMR (CDCl₃) δ : 1.45(9H, s), 3.09(1H, m), 3,35(3H, s), 3.40-3.63(4H, m), 3.96-4.19(2H, m), 5.43(1H, s), 6.68(1H, s), 7.23(2H, d, J=8.3 Hz), 7.32(2H, d, J=8.3 Hz), 7.78(2H, d, J=5.9 Hz), 8.72(2H, d, J=5.9 Hz).

4N Hydrogen chloride in ethyl acetate was added to the solution of

2-(1-(tert-butoxycarbonyl)-2-(4-chlorophenyl)-piperazine-4-yl)-3-methyl-6-(4-pyridyl)pyrimidin-4-one (500 mg, 1.0 mmol) in ethyl acetate and stirred. Filtration and successive dryness gave the title compound (373mg, 79%).

Example 4: Synthesis of 3-methyl-2-(3-(4-((1-pyrrolidinyl)methyl)phenyl)piperidine -1-yl)-6-(4-pyridyl)pyrimidin-4-one fumarate (No. XB43)

Tetrakis(triphenylphosphine)palladium (0.65 g, 0.56 mmol),
4-formylphenylboric acid (2.81 g, 18.7 mmol), 2M aqueous sodium carbonate (18.7 ml, 37.4 mmol) and ethanol were added to the nitrogen-saturated solution of
3-bromopyridine (2.66 g, 16.8 mmol) in toluene and refluxed under nitrogen for 8 hrs. Water was added to the solution and extracted with ethyl acetate, washed with water and brine and dried. Solvents were removed under reduced pressure and the residue was purified by silica gel column chromatography (eluent; hexane/ethyl acetate = 1/1.5) to give 4-(3-pyridyl)benzaldehyde (0.78 g, 25%).

Methyl iodide (0.8 ml, 12.9 mmol) was added to a solution of 4-(3-pyridyl)benzaldehyde (0.78 g, 4.3 mmol) in dichloromethane and stirred 2 days. Additional methyl iodide (0.8 ml, 12.9 mmol) was added and stirred for 3 hr. After removal of the solvent, methanol was added to the residue and ice-cooled. Sodium tetrahydroborate (6.4 g, 17.0 mmol) was added to the solution and stirred for 1.5 hr with warming to room temperature. Organic solvents were removed under reduced pressure after addition of water and extracted with ethyl acetate, washed with water and brine and dried over sodium sulfate. After removal of the solvent under reduced pressure, residue was purified by silica gel chromatography (eluent ethyl acetate to methanol) to give 3-(4-hydroxymethylphenyl)-1-methyl-1,2,5,6-tetrahydropyridine (0.63 g, 72%).

Triethylamine (1.29 ml, 9.2 mmol), acetic anhydride (0.35 ml, 3.7 mmol) were added to a solution of 4-(hydroxymethyl)phenyl-1-methyl-1,2,5,6-tetrahydropyridine (0.63 g, 3.1 mmol) in dichloromethane and stirred overnight.

Organic solvents were removed under reduced pressure after addition of water and extracted with ethyl acetate, washed with water and brine and dried over sodium sulfate. Removal of the solvent under reduced pressure gave 3-(4-acetozymethyl-phenyl)-1-methyl-1,2,5,6-tetrahydropyridine (0.67 g, 89%).

A solution of 3-(4-acetoxymethylphenyl)-1-methyl-1,2,5,6-tetrahydropyridine (0.67 g, 2.7 mmol) and 1-chloroethyl chloroformate (0.36 ml, 3.3 mmol) in dichloroethane was refluxed for 2 hr. Organic solvents were removed under reduced pressure after addition of water and extracted with ethyl acetate, washed with water and brine and dried over sodium sulfate. After removal of the solvent, methanol was added and refluxed for 1.5 hr. Tetrahydrofuran and water were added to the residue after removal of the solvent under reduced pressure and triethylamine (1.9 ml, 13.6 mmol) and di-tert-butyl dicarbonate (0.66 g, 3.0 mmol) were added and stirred. Organic solvents were removed under reduced pressure after addition of water and extracted with ethyl acetate, washed with water and brine and dried over sodium sulfate. Removal of the solvent under reduced pressure and the residue was purified by silica gel chromatography to give 3-(4-acetoxymethylphenyl)-1-(tert-butoxycarbonyl)-1,2,5,6-tetrahydropyridine (0.71 g, 78%).

Palladium on charcoal was added to the solution of 3-(4-acetoxymethylphenyl)-1-(tert-butoxycarbonyl)-1,2,5,6-tetrahydropyridine (0.71 g, 2.1 mmol) in ethyl acetate and stirred under hydrogen atmosphere. After filtration with celite and removal of the solvent under reduced pressure, methanol and 1N aqueous sodium hydroxide were added and stirred. Organic solvents were removed under reduced pressure after addition of water and extracted with ethyl acetate, washed with water and brine and dried over sodium sulfate. Removal of the solvent under reduced pressure and the residue was purified by silica gel chromatography (eluent; hexane/ethyl acetate = 3/1) to give 3-(4-hydroxymethylphenyl)-1-(tert-butoxycarbonyl)piperidine (0.39 g, 62%).

Triethylamine (0.47 g, 3.4 mmol) and methanesulfonyl chloride (0.12 ml, 1.6 mmol) were added to an ice-cooled solution of 3-(4-hydroxymethylphenyl)-1-(tert-butoxycarbonyl)piperidine (0.39 g, 1.34 mmol) in dichloromethane and stirred for 7.5 hr. Pyrrolidine (1.0 ml, 12 mmol) was added to the solution and stirred overnight. Organic solvents were removed under reduced pressure after addition of water and extracted with ethyl acetate, washed with water and brine and dried over sodium sulfate. Removal of the solvent under reduced pressure and the residue was purified by silica gel chromatography (eluent; ethyl acetate to ethyl acetate/methanol = 1/1, then methanol only) to give 3-(4-(1-pyrrolidinyl)methyl-phenyl)-1-(tert-butoxycarbonyl)piperidine (0.26 g, 56%).

4N Hydrogen chloride in ethyl acetate was added to 3-(4-(1-pyrrolidinyl)-methylphenyl)-1-(tert-butoxycarbonyl)piperidine (0.26 g, 0.75 mmol) and stirred overnight. After filtration and dryness, triethylamine (0.5 ml, 3.6 mmol), 2-chloro-3-methyl-6-(4-pyridyl)-pyrimidin-4-one (0.14 g, 0.63 mmol) and tetrahydrofuran were added and stirred at 70℃. Organic solvents were removed under reduced pressure after addition of water and extracted with ethyl acetate, washed with water and brine and dried over sodium sulfate. Removal of the solvent under reduced pressure and the residue was dissolved into ethyl acetate. A solution of fumaric acid (0.095 g, 0.82 mmol) in acetone was added and the resulting precipitate was filtered and dried to give the title compound (0.29 g, 76%).

Example 5: Synthesis of (R)-2-(2-(4-chlorophenyl)piperazin-4-yl)-3-methyl-6-(4-pyridyl)-pyrimidin-4- one (No. XA372)

To a solution of (S)-2-methyl-CBS-oxazaborolidine (27.6 mL, 1.0 M solution in toluene, 27.6 mmol) was added borane-tetrahydrofuran complex (166 ml, 1.0 M solution in tetrahydrofuran, 166 mmol) at -40 °C. To the resulting solution was added a solution of 4'-chlorophenacyl bromide (32.25 g, 138.1 mmol) in tetrahydrofuran (200 ml) through dropping funnel over 1 h at -40 °C. After stirring

for 3 hours below 0 °C, methanol (ca. 50 ml) was added dropwise. After stirring the resulting solution for additional 30 min at room temperature, solvent was removed under reduced pressure. The residue, dissolved in ethyl acetate, was treated with 1 N hydrochloric acid to form white precipitate, which was filtered off. The layers of the filtrate was separated, and the organic layer was washed with hydrochloric acid and brine successively, dried over anhydrous sodium sulfate, filtered, and concentrated under reduced pressure. The residue was used for the next reaction without further purification.

The residue was dissolved in ether (250 ml), and stirred with potassium hydroxide (15.5 g, 276 mmol) in water (250 ml) vigorously. After consumption of the starting material, the layers were separated. The organic layer was washed with brine, dried over anhydrous sodium sulfate, filtered, and concentrated under reduced pressure. The residue was used for the next reaction without further purification.

The residue was heated with benzylamine (37.7 ml, 345 mmol) at 80 °C for 4.5 h. After cooling at room temperature, the resulting white crystals was washed with ether/hexane and collected to afford (S)-2-benzylamino-1-(4-chlorophenyl)-ethanol (23.8 g, 65.8%). The excess benzylamine in the filtrate was distilled off at 120 °C under reduced pressure. From the residue, another (S)-2-benzylamino-1-(4-chlorophenyl)ethanol (2.41 g, 6.7%) was obtained.

¹H NMR (CDCl₃) ™: 2.68(1H, dd, J=12.3, 8.9Hz), 2.92(1H, dd, J=12.3, 3.7Hz), 3.80(1H, d, J=11.9Hz), 3.86(1H, d, J=11.9Hz), 4.68(1H, dd, J=8.9, 3.7Hz), 7.30(9H, m).

To a suspension of (S)-2-benzylamino-1-(4-chlorophenyl)ethanol (15.76 g, 60.21 mmol) and triethylamine (33.6 ml, 241 mmol) in dichloromethane (300 ml) was added a solution of thionyl chloride (4.83 ml, 66.2 mmol) in dichloromethane (20 ml) at -78 °C over 20 min. The resulting suspension was stirred at -78 °C for 20 min and at 0 °C for additional 20 min. The reaction mixture was partitioned

between ether and water, and the organic layer was washed with brine, dried over anhydrous sodium sulfate, filtered, and concentrated under reduced pressure. The residue was purified by silica gel column chromatography (eluent: 10-20% ethyl acetate-hexane) to afford (2RS,5S)-3-benzyl-5-(4-chlorophenyl)-1,2,3-oxathiazolidine 2-oxide (16.2 g 87.4%) as a pale yellow solid.

The resulting product was obtained as a mixture of two diastereomers due to the S-oxide.

major isomer: ¹H NMR (CDCl₃) δ : 3.31(1H, dd, J=10.5, 9.9Hz), 3.55(1H, dd, J=9.0, 6.3Hz), 3.88(1H, d, J=13.2Hz), 4.37(1H, d, J=13.2Hz), 5.49(1H, dd, J=10.5, 6.3Hz), 7.22-7.43(9H, m).

minor isomer: ¹H NMR (CDCl₃) δ : 3.21(1H, dd, J=13.5, 4.5Hz), 3.77(1H, dd, J=13.5, 11.4Hz), 4.05(1H, d, J=13.5Hz), 4.38(1H, d, J=13.5Hz), 5.99(1H, dd, J=11.4, 4.5Hz), 7.22-7.43(9H, m).

A solution of (2RS,5S)-3-benzyl-5-(4-chlorophenyl)-1,2,3-oxathiazolidine 2-oxide (16.2 g, 52.6 mmol) and sodium azide (17.11 g, 263.2 mmol) in N,N-dimethylformamide (100 ml) was heated at 70 °C for 24 hours. The reaction mixture was partitioned between ether and water, and the organic layer was washed with water and brine successively, dried over anhydrous sodium sulfate, and concentrated under reduced pressure. The residue was purified by silica gel column chromatography (eluent: 10-20% ethyl acetate-hexane) to afford (R)-N-benzyl-2-azido-2-(4-chlorophenyl)ethylamine (12.7 g, 83.8%) as a yellow oil. 1H NMR (CDCl₃) δ : 2.81(1H, dd, J=12.5, 5.1Hz), 2.89(1H, dd, J=12.5, 8.5Hz), 3.82(2H, s),4.64(1H, dd, J=8.5, 5.1Hz),7.23-7.36(9H, m).

A solution of (R)-N-benzyl-2-azido-2-(4-chlorophenyl)ethylamine (12.7 g, 44.1 mmol) in tetrahydrofuran (176 mL) was treated with triphenylphosphine (13.9 g, 52.9 mmol) at room temperature. After addition of water (20 ml), the reaction mixture was heated at 60 °C for 1 h. The reaction mixture was condensed, and partitioned between ether and 1 N hydrochloric acid. The aqueous layer was

treated with 1 N aqueous sodium hydroxide solution until the solution became basic. The resulting solution was extracted with dichlromethane thoroughly. The combined organic layer was washed with water, dried over anhydrous sodium sulfate, filtered, and concentrated under reduced pressure. The residue was used for the next reaction without further purification.

The residue was heated with diethyl oxalate (18 ml, 132 mmol) at 120 °C for 1.5 h. The resulting white precipitate was washed with ether and collected to afford (R)-1-benzyl-5-(4-chlorophenyl)-2,3-dioxopiperazine (11.4 g, 82.2%).

1H NMR (CDCl₃) δ : 3.46(1H, dd, J=12.9, 8.1Hz), 3.60(1H, dd, J=12.9, 3.8Hz), 4.48(1H, d, J=14.7Hz), 4.79(1H, d, J=14.7Hz), 4.80(1H, dd, J=8.9, 3.8Hz), 6.83(1H, s), 7.13(4H, m), 7.27(5H, m).

To a suspension of (R)-1-benzyl-5-(4-chlorophenyl)-2,3-dioxopiperazine (11.4 g, 36.3 mmol) in tetrahydrofuran (300 ml) was added borane-tetrahydrofuran complex (181 mL, 1.0 M solution in tetrahydrofuran, 181 mmol) at room temperature. After stirring for 24 hours, the reaction mixture was quenched with methanol (50 ml) at 0 °C, and concentrated under reduced pressure. The residue was treated with 10% aqueous sodium hydroxide solution (300 ml) and heated at 100 °C for 2 hours. After cooling at room temperature, the mixture was extracted with dichloromethane thoroughly. The combined organic layer was dried over anhydrous sodium sulfated, filtered, and concentrated under reduced pressure. The residue was used for the next reaction without further purification.

To a solution of the residue and triethylamine (7.58 ml, 54.4 mmol) in dichloromethane (150 ml) was added di-tert-butyl dicarbonate (9.49 g, 43.5 mmol) at room temperature. After stirring for 45 min, the resulting mixture was partitioned between dichloromethane and water, dried over anhydrous sodium sulfate, filtered, and concentrated under reduced pressure. The residue was purified by silica gel column chromatography (eluent: 10-20% ethyl acetate-hexane) to afford (R)-1-benzyl-4-(tert-butoxycarbonyl)-3-(4-chlorophenyl)piperazine (11.6 g,

82.8%) as an oil.

¹H NMR (CDCl₃) δ : 1.43(9H, s), 2.16(1H, dt, J=4.4, 11.7Hz), 2.40(1H, dd, J=4.4, 11.7Hz), 2.78(1H, dd, J=4.4, 11.7Hz), 2.98(1H, dt, J=4.4, 11.7Hz), 3.20(1H, d, J=12.8Hz), 3.42(1H, d, J=12.9Hz), 3.57(1H, d, J=12.9Hz), 3.89(1H, d, J=12.8Hz), 5.17(1H, s), 7.24-7.36(9H, m).

To a solution of (R)-1-benzyl-4-(tert-butoxycarbonyl)-3-(4-chlorophenyl)piperazine (11.6 g, 30.1 mmol) in 1,2-dichloroethane (80 ml) was added 1-chloroethyl chloroformate (4.91 ml, 45.1 mmol) at room temperature. Upon disappearance of the starting material, the reaction mixture was concentrated under reduced pressure. The residue was then dissolved in methanol (100 ml) and refluxed for 30 min. The resulting white precipitate was filtered and washed with methanol to afford (R)-2-(4-chlorophenyl)piperazine dihydrochloride, which was liberated with aqueous sodium hydroxide solution, and extracted with dichloromethane to afford (R)-2-(4-chlorophenyl)piperazine (3.04 g, 51.4%) as white solid.

¹H NMR (CDCl₃) δ :2.65(1H, dd, J=12.0, 10.5Hz), 2.82-3.04(4H, m), 3.09(1H, d, J=12.6Hz), 3.73(1H, dd, J=10.1, 2.7Hz), 7.29(4H, m)

The filtrate was concentrated under reduced pressure and partitioned between ether and 1 N hydrochloric acid. The aqueous layer was neutralized with 1 N aqueous sodium hydroxide solution, and extracted with dichloromethane thoroughly. The combined organic extracts were dried over anhydrous sodium sulfate, filtered, and concentrated under reduced pressure. The residue was purified after Boc-protection (Boc₂O, Et₃N, CH₂Cl₂) to furnish (R)-1,4-di(tert-butoxycarbonyl)-2-(4-chlorophenyl)piperazine (2.70 g, 22.6%) as pale yellow solid.

¹H NMR (CDCl₃) δ: 1.43(9H, s), 1.46(9H, s), 2.96(2H, m), 3.32(1H, dd, J=13.8, 4.2Hz), 3.74(1H, m), 3.94(1H, d, J=11.4Hz), 4.40(1H, d, J=13.2Hz), 5.23(1H, s), 7.25(2H, m)

To a suspension of (R)-2-(4-chlorophenyl) piperazine dihydrochloride (1.09 g, 4.05 mmol) in tetrahydrofuran (24 ml) was added triethylamine (2.82 ml, 20.3 mmol). After stirring for 15 min at room temperature, 2-chloro-3-methyl-6-(4pyridyl)-3H-pyrimidin-4-one (748 mg, 3.38 mmol) was added portionwise. Upon disappearance of the chloropyrimidone, the reaction mixture was condensed under reduced pressure. The residue was partitioned between saturated aqueous sodium bicarbonate solution and dichloromethane. The organic layer was dried over anhydrous sodium sulfate, filtered, and concentrated under reduced pressure to give pale yellow solid, which was recrystallized from ethanol to afford (R)-2-(2-(4-chlorophenyl)piperazin-4-yl)-3-methyl-6-(4-pyridyl)-pyrimidin-4-one (998 mg, 77.4%) as white crystals. The enantiomer excess was determined by HPLC (>99% ee). The crystals were converted into its dihydrochloride salt. ¹H NMR (DMSO-d₆) δ : 3.40(3H, m), 3.46(3H, s), 3.62(1H, dd, J=12.0, 13.2Hz), 3.72(1H, m), 3.92(1H, t, J=15.5Hz), 4.68(1H, t, J=10.1Hz), 7.18(1H, s), 7.58(2H, d, J=8.6Hz), 7.83(2H, d, J=8.6Hz), 8.57(2H, d, J=6.6Hz), 9.01(2H, d, J=6.6Hz), 10.20(1H, d, J=7.8Hz), 10.76(1H, br s) MS: 382(M+H)

 $[\alpha]_{D^{24}} = +62.2 \circ (c \ 1.00, \ H_2O)$

Example 6: Synthesis of (S)-2-(2-(4-chlorophenyl)piperazin-4-yl)-3-methyl-6-(4-pyridyl)-pyrimidin-4-one (No. XA373)

(S)-isomer was prepared same as above by using (R)-2-methyl-CBS-oxazaborolidine instead of (S)-2-methyl-CBS-oxazaborolidine.

¹H NMR (DMSO-d₆) δ : 3.40 (3H, m), 3.45 (3H, s), 3.53-3.96 (3H, m), 4.68 (1H, t, J = 13.5Hz), 7.10 (1H, s), 7.60 (2H, d, J=8.3Hz), 7.76 (2H, d, J=8.3Hz), 8.38 (1H, br s), 8.91 (1H, d, J=4.8Hz), 9.88 (1H, br s), 10.31 (1H, br s)

MS: 382(M+H)

 $[\alpha]_{D^{24}} = -63.3 \circ (c \ 1.00, \ H_2O)$

Example 7: Synthesis of 2-(2-(4-fluoro-2-methoxyphenyl)piperazin-4-yl)-3-methyl-6-(4-pyrimidyl)-pyrimidin-4-one (No. YA0366)

A solution of 2-bromo-5-fluoroanisole (11.8 g, 57.6 mmol) in tetrahydrofuran (60 ml) was dropped into the magnesium (1.40 g, 57.6 mmol) in refluxed tetrahydrofuran (32 ml) containing small amount of 1,2-dibromoethane and refluxed for 15 min. After addition of tetrahydrofuran (50 ml), the solution was cooled to -78 °C and diethyl oxalate (7.41 g, 50.7 mmol) in diethyl ether (50 ml) was dropped into the solution. After stirring at the same temperature for 30 min, the solution was warmed to -10 °C and 1N aqueous hydrogen chloride (50 ml) and water were added. Organic layer was extracted with diethyl ether, washed with brine and dried over magnesium sulfate. After removal of the solvent under reduced pressure, purification of the residue by silica gel column chromatography (eluent: hexane/ethyl acetate = 5/2) gave ethyl 2-(4-fluoro-2-methoxyphenyl)-2-oxoacetate (6.80g, 59%)

¹H-NMR (CDCl₃) δ : 1.40(3H, t, J=7.1 Hz),3.87(3H, s), 4.89(2H, q, J=7.1Hz), 6.68(1H, d, J=10.5 Hz), 6.77-6.81(1H, m), 7.91-7.95(1H, m).

Ethylenediamine (0.60 g, 10.0 mmol) was added to a solution of ethyl 2-(4-fluoro-2-methoxyphenyl)-2-oxoacetate (2.26 g, 10.0 mmol) in ethanol(30 ml) and refluxed 4 hr. After removal of the solvent under reduced pressure, residue was washed with ethanol-diethyl ether to give 5,6-dihydro-3-(4-fluoro-2-methoxyphenyl)pyrazinone (1.76 g, 79%).

¹H-NMR (CDCl₃) δ : 3.50-3.56 (2H, m), 3.81 (3H, s), 3.88-3.92 (2H, m), 6.65(1H, d, J=11.0 Hz), 6.70-6.76 (1H, m), 6.89(1H, bs), 7.36-7.40(1H, m).

5,6-Dihydro-3-(4-fluoro-2-methoxyphenyl)pyrazinone was added to the solution of lithium aluminium hydride (0.46 g, 12 mmol) in diethyl ether (25 ml) and refluxed for 6 hr: Water (0.48 ml), 15% sodium hydroxide solution (0.48 ml) and again water (1.21 ml) were added to the ice-cooled solution and the precipitate was

filtered and washed with dichloromethane. Combined organic layer was evaporated to give 2-(4-fluoro-2-methoxyphenyl)piperazine (0.83 g, 99%).

¹H-NMR (CDCl₃) δ : 2.02(2H, s), 2.57-2.63 (1H, m), 2.80-2.89 (1H, m), 2.92-2.99 (2H, m), 3.06-3.12 (2H, m), 3.80(3H, s), 4.06 (1H, d, J=10.0 Hz), 6.56-6.65 (2H, m), 7.40 (1H, t, J=7.8 Hz).

2-Chloro-3-methyl-6-(4-pyrimidyl)-pyrimidin-4-one (223 mg, 1.0 mmol) was added to an ice-cooled solution of 2-(4-fluoro-2-methoxyphenyl)piperazine (210 mg, 1.0 mmol), triethylamine (0.15 ml, 1.1 mmol) in N,N-dimethylformamide (10 ml) and stirred at that temperature for 0.5 hr and then at room temperature for 3 hours. Reaction was quenched by ice-water and the filtrate was washed with water and dried to give 2-(2-(4-fluoro-2-methoxyphenyl)piperazin-4-yl)-3-methyl-6-(4-pyrimidyl)-pyrimidin-4-one (262 mg, 66%).

¹H-NMR (CDCl₃) δ: 2.89-2.98 (1H, m), 3.22-3.31 (3H, m), 3.60 (3H, s), 3.62-3.71 (2H, m), 3.86 (3H, s), 4.39-4.44 (1H, m), 6.43-6.73 (2H, m), 7.33 (1H, s), 7.52-7.56 (1H, m), 8.19 (1H, d, J=5.1 Hz), 8.87 (1H, d, J=5.2 Hz), 9.28 (1H, d, J=1.2 Hz).

4N Hydrogen chloride in 1,4-dioxane (0.2 ml) was added to the solution of 2-(2-(4-fluoro-2-methoxyphenyl)piperazin-4-yl)-3-methyl-6-(4-pyrimidyl)-pyrimidi n-4-one (238 mg, 0.6 mmol) in dichloromethane (5 ml) and stirred for 15 min. Wash with methanol and ethyl acetate after removal of the solvent and dryness gave the title compound (223 mg, 86%).

Example 8: Synthesis of 2-(2-(4-chlorophenyl)-piperazine-4-yl)-3-methyl-6-(4-pyrimidyl)pyrimidin-4-one (No. YA0269)

Dimethyl sulfoxide (60 ml) solution of 4-chlorophenacylbromide (11.11 g, 65.9 mmol) and water (1.7 ml) were stirred. The solution was extracted with ethyl acetate 3 times and washed with water twice and brine and then dried over sodium sulfate. After removal of the solvent, the residue was washed with hexane-ethyl acetate and dried to give 4-chlorophenylglyoxal (4.43 g, 50%).

¹H-NMR (CDCl₃) δ : 4.02-4.16(2H, m), 5.90-5.95(1H, m), 7.45-7.53(2H, m), 8.05-8.11(2H, m).

A methanol (10 ml) solution of ethylenediamine (1.90 g, 31.6 mmol) was added to the ice-cooled solution of 4-chlorophenylglyoxal (4.43 g, 26.3 mmol) in methanol (100 ml) and tetrahydrofuran (30 ml) and stirred for 10 min. After addition of sodium tetrahydroborate (3.26 g, 86.3 mmol), additional methanol (50 ml) was added and stirred overnight. After removal of the solvent, diluted hydrochloric acid was added and extracted with ether twice. After addition of sodium hydroxide, basic aqueous layer was extracted with dichloromethane three times and washed with brine and dried over sodium sulfate. After removal of the solvent by filtration, purification of the residue by silica gel column chromatography (eluent; dichloromethane/ethanol = 10/1 to dichloromethane/ethanol/diethylamine = 20/2/1) to give 2-(4-chlorophenyl)-piperazine (0.43 g, 9%)

1H-NMR (CDCl₃) δ : 2.67(1H, dd, J=10.5, 12.0 Hz), 2.87-3.03(4H, m), 3.07-3.13(1H, m), 3.77(1H, dd, J=2.7, 10.2 Hz), 7.27-7.36(4H, m).

Triethylamine (528 mg, 5.2 mmol) was added to a solution of 4-(chlorophenyl)piperazine (216 mg, 1.1 mmol) and 2-chloro-3-methyl-6-(4-pyrimidyl)pyrimidin-4-one and stirred at 50℃ for 2 hr. Solvent was removed under reduced pressure, and 1N aqueous sodium hydroxide solution was added to the residue and extracted by dichloromethane. After washing with brine and dryness by sodium sulfate, solvent was removed under reduced pressure, and the residue was purified using ISOLUTE(registered trade mark) SI (International Sorvent Technology, UK)(eluent; dichloromethane/ethanol = 10/1) to give the title compound (396 mg, 95 %).

Example 9: Synthesis of 2-(2-(4-chlorophenyl)-6,6-dimethyl-piperazin-4-yl)-3-methyl-6-pyridin-4-yl-3*H*-pyrimidin-4-one dihydrochloride (No. XA1986)

A solution of 4'-chloro-2-bromoacetophenone (25.0 g, 107 mmol), water (1.92 mL, 107 mmol) and 47% hydrobromic acid (0.20 mL) in dimethylsulfoxide (160 mL) was stirred at 80°C for 5 h. After the reaction mixture was poured into water, the precipitate was filtered, washed with diethylether and dried, affording 4'-chloro-2,2-dihydroxyacetophenone (14.0 g, 70%). ¹H NMR (300MHz, CDCl₃), δ 5.92(1H, s), 7.45-7.52(2H, m), 8.05 –8.20(2H, m).

2,2-dimethly-ethylenediamine (2.10 mL, 20.0 mmol) was added to a solution of 4'-chloro-2,2-dihydroxyacetophenone (3.70 g, 20.0 mmol) in methanol (120 mL) and tetrahydrofuran (30 mL) at room temperature. After 2 h, sodium borohydride (1.50 g, 40.0 mmol) was added to the reaction mixture at 0 $^{\circ}$ C. The reaction mixture was stirred overnight, then quenched with 1N hydrochloric acid and evaporated in vacuo. The acidic solution was extracted with ethyl acetate, then basified to pH 11 using 15% aqueous sodium hydroxide, and extracted with dichloromethane. The extract was dried over sodium sulfate and concentrated in vacuo. Di-t-butyldicarbonate (6.40 mL, 27.9 mmol) was added to the solution of the residue in 1N aqueous sodium hydroxide (40 mL) and tetrahydrofuran (60 mL). The water. The organic layer was extracted with additional ethyl acetate, dried and concentrated in vacuo. The crude product was purified by flash column chromatography, affording 2-(4-chlorophenyl)-4-t-butoxycarbonyl-6,6-dimethylpiperazine (1.69 g, 28%, 2 steps). 1 H NMR (300MHz, CDCl₃), δ 1.15(3H, s), 1.21(3H, s), 2.47-2.70(2H, m), 3.72-4.16(3H, m), 7.26-7.37(4H, m).

4 M Hydrogen chloride in ethyl acetate (5.0 mL, 20.0 mmol) was added to a solution of 2-(4-chlorophenyl)-4-t-butoxycarbonyl-6,6-dimethyl-piperazine (1.69 g, 5.2 mmol). After 12 h, removing the solvent, filtrating and washing the precipitate with ethyl acetate gave 2-(4-chlorophenyl)-6,6-dimethyl-piperazine dihydrochloride

(1.43 g, 95%). ¹H NMR (300MHz, DMSO-d₆), δ 1.40 (3H, s), 1.58(3H, s), 3.24-3.99(4H, m), 4.73(1H, m), 7.69(2H, d, J = 8.4 Hz), 7.79(2H, m), 9.99-10.12(2H, m).

A solution of 2-(4-chlorophenyl)-6,6-dimethyl-piperazine hydrochloride (155 mg, 0.52 mmol), 2-chloro-3-methyl-6-(4-pyridyl)-pyrimidine-4-one (111 mg, 0.50 mmol) and triethylamine (0.42 mL, 2.50 mmol) in tetrahydrofuran (5 mL) was stirred at room temperature for 6 h. The whole was evaporated in vacuo and the residue was extracted with dichloromethane. The organic layer was washed with water, dried and concentrated in vacuo. The residue was dissolved in methanol (5mL) and treated with 4M hydrogen chloride in ethyl acetate (0.50 mL, 2.0 mmol) for 20 min. After removing the solvent, filtrating and washing the precipitate with ethanol gave 2-(2-(4-chlorophenyl)-6,6-dimethyl-piperazin-4-yl)-3-methyl-6-pyridin-4-yl-3H-pyrimidin-4-one dihydrochloride (235 mg, 97%).

Example 10 : Synthesis of 2-(2S-(4-bromophenyl)-piperazin-1-yl)-3-methyl-6-pyridin-4-yl-3H-pyrimidin-4-one (No. XA2051)

Benzyl chloroformate (2.40 mL, 15.0 mmol) was added to a solution of 2S-(4-bromophenyl)-piperazine dihydrochloride in 1N aqueous sodium hydroxide (30 mL) and dichloromethane (60 mL). The resulting suspension was stirred at room temperature for 1.5 h. After partitioned between ethyl acetate, the organic layer was extracted with additional ethyl acetate, dried and concentrated in vacuo. The precipitate was washed with ether, affording 2S-(4-bromophenyl)-4-benzyloxycarbonyl-piperazine (2.92 g, 57%). ¹H NMR (300MHz, CDCl₃), δ 2.87-3.01(2H, m), 3.47(2H, m), 3.93-3.97(1H, m), 4.20(2H, m), 5.16(2H, s), 7.36(5H, m), 7.42-7.61(4H, m).

A solution of 2S-(4-bromophenyl)-4-benzyloxycarbonyl-piperazine (788 mg, 2.10 mmol), 2-chloro-3-methyl-6-(4-pyridyl)-pyrimidine-4-one (444 mg, 2.00 mmol) and diisopropylethylamine (0.70 mL, 4.00 mmol) in dimethylformamide (20 mL) was stirred at 80℃ for 3 h. The reaction mixture was poured into water and the

whole was extracted with ethyl acetate. The organic layer was washed with brine, dried and concentrated in vacuo. Chromatographic purification of the residue provided 2-(2S-(4-bromophenyl)-4-benzyloxycarbonyl-piperazin-1-yl)}-3-methyl-6-pyridin-4-yl-3H-pyrimidin-4-one (601 mg, 54%). ¹H NMR (300MHz, CDCl₃), δ 3.05(1H, m), 3.30-3.48(3H, m), 3.64(3H, s), 4.08-4.22(2H, m), 4.68(1H, m), 5.15(1H, d, J= 12.3 Hz), 5.21(1H, d, J= 12.6 Hz), 6.63(1H, s), 7.21(2H, d, J= 8.4 Hz), 7.28-7.39(7H, m), 7.59(2H, d, J=6.3 Hz), 8.68(2H, d, J=6.3 Hz).

Potassium hydroxide (168 mg, 3.0 mmol) was added to a solution of 2-{2S-(4-bromophenyl)-4-benzyloxycarbonyl-piperazin-1-yl}-3-methyl-6-pyridin-4-y l-3H-pyrimidin-4-one in ethanol (2.0 mL). After stirring for 8 h at room temperature, purifying by preparative HPLC gave 2-(2S-(4-bromophenyl)-piperazin-1-yl)-3-methyl-6-pyridin-4-yl-3H-pyrimidin-4-one (40 mg, 26%).

Example 11: Synthesis of (S)-3-methyl-6-(4-pyridyl)-2-(3-(4-(3-(pyrrolidin-1-yl) pyrrolidin-1-yl)phenyl)piperazin-1-yl)pyrimidin-4-one (No. XA2032)

A suspension of (S)-2-(4-bromophenyl)-1,4-di(t-butoxycarbonyl) piperazine (1.33 g, 3.00 mmol), (R)-3-pyrrolidinol (520 mg, 4.20 mmol), palladium acetate (27 mg, 0.12 mmol), 2-(di-t-butylphosphino)biphenyl (72 mg, 0.24 mmol), and sodium t-butoxide (808 mg, 8.41 mmol) in tert-butanol (20 mL) was heated at 90 °C for 3.5 h. After dilution with ethyl acetate, the resulting mixture was passed through a Celite column. The filtrate was concentrated in vacuo, and the residue was purified by silica gel column chromatography eluting 10-50% ethyl acetate hexane to afford (S)-1,4-di-(t-butoxycarbonyl)-2-(4-((R)-3-hydroxypyrrolidino) phenyl)piperazine (733 mg, 54.5%) as a yellow foam.

To a solution of (S)-1,4-di(t-butoxycarbonyl)-2-(4-((R)-3-hydroxy pyrrolidino) phenyl)piperazine (733 mg, 1.64 mmol) and triethylamine (0.34 mL, 2.46 mmol) in dichloromethane (20 mL) was added methanesulfonyl chloride (0.152 mL, 1.97 mmol) at 0 °C. After stirring for 20 min, the reaction mixture was

partitioned between ethyl acetate and water. The organic layer was washed with brine, dried over anhydrous sodium sulfate, and concentrated in vacuo to afford (S)-1,4-di(t-butoxycarbonyl)-2-(4-((R)-3-(methansulfonyloxy)pyrrolidin-1-yl) phenyl)piperazine (877 mg, quant.) as a brown solid.

To a solution of (S)-1,4-di(t-butoxycarbonyl)-2-(4-((R)-3-methansulfonyloxy-pyrrolidino)phenyl)piperazine (877 mg, 1.64 mmol) in toluene (10 mL) was added pyrrolidine (0.64 mL, 8.19 mmol), and the resulting solution was heated at 90 °C for 8 h. After checking consumption of the starting material with TLC, the reaction mixture was partitioned between ethyl acetate and saturated sodium bicarbonate aqueous solution. The organic layer was washed with brine, dried over anhydrous sodium sulfate, and concentrated in vacuo. The residue was purified by silica gel column chromatography eluting 30-100% ethyl acetate-hexane and then 3-10% methanol-ethyl acetate to afford (S)-1,4-di(t-butoxycarbonyl)-2-(4-((S)-3-(pyrrolidin-1-yl)pyrrolidin-1-yl) phenyl)piperazine (479 mg, 58%) as a pale yellow powder.

To a solution of (S)-1,4-di(t-butoxycarbonyl)-2-(4-((S)-3-(pyrrolidin-1-yl) pyrrolidin-1-yl)phenyl)piperazine (479 mg, 0.957 mmol) in dichloromethane (4 mL) was added 4 N hydrogen chloride in ethyl acetate (4 mL) at room temperature. After stirring for 3 h, the resulting precipitate was collected and dried in vacuo to afford (S)-2-(4-((S)-3-(pyrrolidin-1-yl)pyrrolidin-1-yl)phenyl)piperazine tetrahydrochloride (370 mg, 87%) as a white solid.

To a suspension of (S)-2-(4-((S)-3-(pyrrolidin-1-yl)pyrrolidin-1-yl)phenyl) piperazine tetrahydrochloride (98 mg, 0.22 mmol) in tetrahydrofuran (5 mL) was added triethylamine (0.20 mL, 1.40 mmol) and 2-chloro-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one (44 mg, 0.20 mmol) at room temperature. After stirring for 24 h, the reaction mixture was concentrated in vacuo. The residue was dissolved in dichloromethane and sodium bicarbonate aqueous solution, and the solution was passed through CHEM ELUT CE1010 (manufactured by VARIAN). The filtrate was

concentrated, and the resulting crystals were washed in a mixture of diisopropyl ether and ethanol to afford (S)-2-(3-(4-(3-(pyrrolidin-1-yl)pyrrolidin-1-yl)phenyl)piperazin-1-yl)-3- methyl-6-(4-pyridyl)pyrimidin-4-one (80 mg, 82%) as a pale yellow solid.

Example 12: Synthesis of (S)-3-methyl-6-(4-pyrimidinyl)-2-(3-(4-(3-(pyrrolidin-1-yl) pyrrolidin-1-yl)phenyl)piperazin-1-yl)pyrimidin-4-one (No. YA1577)

To a suspension of (S)-2-(4-((S)-3-(pyrrolidin-1-yl)pyrrolidin-1-yl)phenyl) piperazine tetrahydrochloride (99 mg, 0.22 mmol) in tetrahydrofuran (5 mL) was added triethylamine (0.20 mL, 1.40 mmol) and 2-chloro-3-methyl-6-(4-pyrimidinyl)-3H-pyrimidin-4-one (45 mg, 0.20 mmol) at room temperature. After stirring for 24 h, the reaction mixture was concentrated in vacuo. The residue was dissolved in dichloromethane and sodium bicarbonate aqueous solution, and the solution was passed through CHEM ELUT CE1010 (manufactured by VARIAN). The filtrate was concentrated, and the resulting crystals were washed in a mixture of diisopropyl ether and ethanol to afford (S)-3-methyl-6-(4-pyrimidinyl)-2-(3-(4-(3-(pyrrolidin-1-yl)pyrrolidin-1-yl)phenyl)piperazin-1-yl)-pyrimidin-4-one (65 mg, 66%) as a pale yellow solid.

Example 13: Synthesis of (S)-2-(3-(4-(N-cyclohexyl-N-methylamino)phenyl) piperazin- 1-yl)-3-methyl-6-(4-pyridyl)pyrimidin-4-one (No. XA1999)

A suspension of (S)-2-(4-bromophenyl)-1,4-di(t-butoxycarbonyl) piperazine (1.21 g, 2.75 mmol), N-methylcyclohexylamine (0.43 mL, 3.30 mmol), palladium acetate(25 mg, 0.11 mmol), 2-(di-t-butylphosphino)biphenyl (66 mg, 0.22 mmol), and sodium t-butoxide (370 mg, 3.85 mmol) in t-butanol (15 mL) was heated at 80 °C for 8 h. The resulting solution was partitioned between ethyl acetate and water. The organic layer was washed with brine, dried over anhydrous sodium sulfate, and concentrated in vacuo. The residue was purified by silica gel column

chromatography eluting 10-15% ethyl acetate-hexane to afford (S)-1,4-di(t-butoxycarbonyl)-2-(4-(N- cyclohexyl-N-methylamino)phenyl)piperazine (917 mg) as white crystals.

To a solution of (S)-1,4-di(t-butoxycarbonyl)-2-(4-(N-cyclohexyl-N-methylamino)phenyl)piperazine in dichloromethane (4 mL) was added 4 N hydrogen chloride in ethyl acetate(4 mL). After stirring for 40 min, the white precipitate was collected, which included impurities. The mixture was purified by a reverse phase chromatography eluting 0.05% TFA in water-acetonitrile to afford (S)-2-(4-(N-cyclohexyl-N-methylamino)phenyl)piperazine (59 mg 8% in 2 steps) as a clear oil.

To a solution of (S)-2-(4-(N-cyclohexyl-N-methylamino)phenyl) piperazine(50 mg, 0.183 mmol) and triethylamine (0.077 mL, 0.55 mmol) was added 2-chloro-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one (37 mg, 0.17 mmol) at room temperature. After stirring for 4.5 h, the reaction mixture was concentrated in vacuo. The residue was partitioned between dichloromethane and saturated sodium bicarbonate aqueous solution. The organic layer was dried over anhydrous sodium sulfate and concentrated. The residue was purified by a reverse phase chromatography eluting 0.05% TFA in water-acetonitrile to afford (S)-2-(3-(4-(N-cyclohexyl-N-methylamino)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyr idyl)pyrimidin-4-one (67 mg, 88%) as a oil, which was dissolved in ethyl acetate and treated with 4 N hydrogen chloride in ethyl acetate to yield its trihydrochloride.

Example 14: Synthesis of (S)-2-(3-(4-(N,N-dimethylamino)phenyl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)pyrimidin-4-one trihydrochloride (No. XA2017)

A suspension of (S)-2-(4-bromophenyl)-1,4-di(t-butoxycarbonyl) piperazine (1.14 g, 2.59 mmol), N,N-dimethylamine hydrochloride (422 mg, 5.17 mmol), palladium acetate (23 mg, 0.10 mmol), 2-(di-t-butylphosphino)biphenyl(62 mg, 0.21 mmol), and sodium t-butoxide (845 mg, 8.80 mmol) in t-butanol (15 mL)

was heated at 90 °C for 3 h. After dilution with ethyl acetate, the resulting solution was passed through a Celite column. The filtrate was concentrated, and the residue was purified by silica gel column chromatography eluting 10-20% ethyl acetate-hexane to afford (S)-1,4-di(t-butoxycarbonyl)-2-(4-(N,N-dimethylamino) phenyl)piperazine (556 mg, 53%) as white crystals.

To a solution of (S)-1,4-di(t-butoxycarbonyl)-2-(4-(N,N-dimethylamino) phenyl)piperazine (556 mg, 1.37 mmol) in dichloromethane (4 mL) was added 4 N hydrogen chloride in ethyl acetate (4 mL). After stirring for 8.5 h, the white precipitate was collected and dried in vacuo to afford (S)-2-(4-(N,N-dimethylamino) phenyl)piperazine trihydrochloride (413 mg, 96%) as white crystals.

To a suspension of (S)-2-(4-(N,N-dimethylamino)phenyl)piperazine trihydrochloride(115 mg, 0.365 mmol) in tetrahydrofuran (5 mL) was added triethylamine (0.28 mL, 2.0 mmol) and then 2-chloro-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one (74 mg, 0.33 mmol) at room temperature. After stirring for 10 h, the resulting mixture was concentrated in vacuo. The residue was dissolved in dichloromethane and saturated sodium bicarbonate aqueous solution, and the solution was passed through CHEM ELUT CE1010 (manufactured by VARIAN). The filtrate was concentrated in vacuo to yield crystals, which were washed with diisopropyl ether. After the crystals were dissolved in ethyl acetate, the solution was treated with 4 N hydrogen chloride in ethyl acetate. White precipitate was collected and dried in vacuo to afford (S)-2-(3-(4-(N,N-dimethylamino)phenyl) piperazin-1-yl)-3-methyl-6-(4-pyridyl)pyrimidin-4-one trihydrochloride (135 mg, 81%).

Example 15: Synthesis of (S)-2-(3-(4-methoxybiphen-4-yl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)pyrimidin-4-one (No. XA1991)

A mixture of (S)-2-(4-bromophenyl)-1,4-di(t-butoxycarbonyl)piperazine (1.82 g, 4.11 mmol), 4-methoxyphenylboronic acid (937 mg, 6.17 mmol), sodium

carbonate (2.18 g, 20.6 mmol), and tetrakis(triphenylphosphine)palladium(0) (238 mg, 0.206 mmol) was dissolved in dimethoxyethane (20 mL) and water (20 mL), and the resulting solution was refluxed for 3 h. After cooling to room temperature, the mixture was partitioned between ethyl acetate and water. The organic layer was washed with brine, dried over anhydrous sodium sulfate, and concentrated in vacuo. The resulting solid was washed with ethyl acetate to afford (S)-1,4-di(t-butoxycarbonyl)-2-(4'-methoxybiphen-4-yl) piperazine (1.46 g, 75.9%) as a white solid.

To a solution of (S)-1,4-di(t-butoxycarbonyl)-2-(4'-methoxybiphen-4-yl)-piperazine (1.46 g, 3.12 mmol) in dichloromethane (8 mL) was added 4 N hydrogen chloride in ethyl acetate (8 mL) at room temperature. After stirring for 1 h, the precipitate was collected and dried in vacuo to afford (S)-2-(4'-methoxybiphen-4-yl) piperazine dihydrochloride (1.00 g, 94%) as white solid.

To a suspension of (S)-2-(4'-methoxybiphen-4-yl)-piperazine dihydrochloride (237 mg, 0.694 mmol) in tetrahydrofuran (5 mL) was added triethylamine (0.40 mL, 2.9 mmol) and then 2-chloro-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one (128 mg, 0.579 mmol) at room temperature. After stirring for 28 h, the resulting mixture was concentrated in vacuo. The residue was partitioned between dichloromethane and saturated sodium bicarbonate aqueous solution, and the organic layer was dried over anhydrous sodium sulfate and then concentrated in vacuo. The resulting solid was washed with hot ethanol to afford (S)-2-(3-(4-methoxybiphen-4-yl)piperazin-1-yl)-3-methyl-6-(4-pyridyl)pyrimidin-4-one (252 mg, 96%), which was treated with 4 N hydrogen chloride in ethyl acetate to yield its dihydrochloride salt (252 mg) as pale yellow crystals.

Example 16: Synthesis of (S)-2-(3-benzylpiperazin-1-yl)-3-methyl-6-(4-pyridyl) pyrimidin-4-one (No. XA2004)

To a solution of L-phenylalanine ethyl ester hydrochloride (3.875 g, 16.87

mmol), Boc-glycine (2.815 g, 16.07 mmol) in dichloromethane (100 mL) was added triethylamine (2.35 mL, 16.87 mmol) and then 1-(3-dimethylaminopropyl)-3-ethylcarbodiimide hydrochloride (3.23 g, 16.87 mmol) at room temperature. After the resulting mixture was stirred for 2.5 h, it was partitioned between ethyl acetate and water. The organic layer was washed with 1 N hydrochloric acid, brine, and then saturated sodium bicarbonate aqueous solution, dried over anhydrous sodium sulfate, and concentrated in vacuo to afford Boc-glyclylphenylalanine ethyl ester (5.96 g).

To a solution of Boc-glycylphenylalanine ethyl ester (5.96 g) in dichloromethane (20 ml) was added trifluoroacetic acid (20 mL) at room temperature. After stirring 1.5 h, the resulting solution was concentrated in vacuo. The residue was dissolved in water, into which sodium bicarbonate was added until the pH was 9. After the solution was stirred for several hours, the resulting white crystals were collected and dried in vacuo to afford (S)-3-benzyl-2,5-dioxopiperazine (2.29 g, 70% in 2 steps) as a white powder.

To a suspension of (S)-3-benzyl-2,5-dioxopiperazine (2.284 g, 11.18 mmol) in tetrahydrofuran (20 mL) was added borane-tetrahydrofuran complex (49 mL, 1.0 M solution in THF, 49 mmol) at room temperature. The resulting mixture was refluxed for several hours before it was quenched with methanol at 0 °C. After concentration in vacuo, the residue was treated with 10% sodium hydroxide aqueous solution, which was extracted with dichloromethane thoroughly. The organic layer was washed with water, dried over anhydrous sodium sulfate, and concentrated in vacuo to afford white crystals, which were washed with ether to yield (S)-2-benzylpiperazine (795 mg, 40.3%).

To a solution of (S)-2-benzylpiperazine (48 mg, 0.27 mmol) in tetrahydrofuran (5 mL) was added triethylamine (0.10 mL, 0.74 mmol) and then 2-chloro-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one (55 mg, 0.248 mmol) at room temperature. After refluxing for 24 h, the resulting mixture was concentrated in

vacuo. The residue was partitioned between dichloromethane and saturated sodium bicarbonate aqueous solution, and the organic layer was dried over anhydrous sodium sulfate and then concentrated in vacuo. The residue was purified by a reverse phase chromatography eluting 0.05% TFA in water-acetonitrile to afford (S)-2-(3-benzylpiperazin-1-yl)-3-methyl-6-(4-pyridyl) pyrimidin-4-one (73 mg 81%), which was treated with 4 N hydrogen chloride in ethyl acetate to yield its dihydrochloride salt as a yellow powder.

Example 17: Synthesis of (S)-3-methyl-2-(3-(4-(1,2,4-oxadiazol-3-yl)phenyl) piperazin-1-yl)-6-(4-pyridyl)pyrimidin-4-one (No. XA2039)

To a solution of 4-cyanoacetophenone (11.32 g, 77.98 mmol) in dichloromethane (200 mL) was added bromine (4.00 mL, 78.0 mmol) dropwise at room temperature. After stirring several minutes, the reaction mixture was washed with water, dried over anhydrous sodium sulfate, and concentrated in vacuo to afford 4-cyanophenacyl bromide (17.73 g) as a white solid.

A solution of 4-cyanophenacyl bromide (11.20 g, 49.99 mmol) in dimethylsulfoxide (83 mL) was treated with water (0.90 mL, 49.99 mmol). After stirring for 24 h at room temperature, it was poured into ice-water, and extracted with ether. The organic layer was washed with water and then brine, dried over anhydrous sodium sulfate, and concentrated in vacuo. The residue was purified by a silica gel column chromatography eluting 20-50% ethyl acetate in hexane to afford 4-cyanophenylglyoxal (5.10 g, 64.1%) as a yellow solid.

To a solution of 4-cyanophenylglyoxal (2.21 g, 12.5 mmol) in methanol (30 mL) and tetrahydrofuran (10 mL) was added ethylenediamine (1.00 mL, 14.96 mmol) at room temperature. After the mixture was stirred at room temperature for 1 h, sodium borohydride (943 mg, 24.92 mmol) was added at 0 °C. The solution was warmed up to room temperature and stirred for another 2 h before it was quenched with 1 N hydrochloric acid. After concentration in vacuo, the mixture was

partitioned between ether and water. The aqueous layer was alkalized with sodium hydroxide, and extracted with dichloromethane. The extract was dried over anhydrous sodium sulfate, and then concentrated in vacuo to afford reddish oil (1.69 g). The oil was dissolved in dichloromethane (30 mL), into which triethylamine (3.82 mL, 27.41 mmol) and di-tert-butyl dicarbonate (5.98 g, 27.41 mmol) at room temperature. The reaction mixture was stirred for several hours before it was partitioned between ethyl acetate and water. The organic layer was dried over anhydrous sodium sulfate, and then concentrated in vacuo. The residue was purified by a silica gel column chromatography eluting 5-20% ethyl acetate in hexane to afford 1,4-di(t-butoxycarbonyl)-2-(4-cyanophenyl)piperazine (2.46 g, 50.9%) as white crystals.

A solution of 1,4-di(t-butoxycarbonyl)-2-(4-cyanophenyl)piperazine (558 mg, 1.44 mmol), hydroxylamine hydrochloride (300 mg, 4.23 mmol), and sodium carbonate (763 mg, 7.20 mmol) in ethanol (3 mL) and water (3 mL) was heated at 80 °C for 2.5 h before it was partitioned between dichloromethane and water. The aqueous layer was extracted with dichloromethane. The combined organic layer was dried over sodium sulfate, and concentrated in vacuo to afford white foam (680 mg), which was dissolved in toluene (5 mL) and treated with triethyl orthoformate (2.4 mL, 14.4 mmol) and p-toluenesulfonic acid (27 mg, 0.14 mmol). The solution was heated at 90 °C for 1 h before it was partitioned between dichloromethane and saturated sodium bicarbonate aqueous solution. The organic layer was dried over anhydrous sodium sulfate, and concentrated in vacuo. The resulting white crystals were washed with ethyl acetate, and dried in vacuo to afford 1,4-di(t-butoxycarbonyl)-2-(4-(1,2,4-oxadiazol-3-yl)phenyl)piperazine (464 mg, 75% in 2 steps).

To a solution of 1,4-di(t-butoxycarbonyl)-2-(4-(1,2,4-oxadiazol-3-yl) phenyl)piperazine (464 mg, 1.08 mmol) in dichloromethane (2 mL) was added 4 N hydrogen chloride in ethyl acetate (3 mL) at room temperature. After stirring for

1.5 h, the precipitate was collected and dried in vacuo to afford 2-(4-(1,2,4-oxadiazol-3-yl)phenyl)piperazine dihydrochloride (321 mg, 98%) as a white powder.

To a suspension of 2-(4-(1,2,4-oxadiazol-3-yl)phenyl)piperazine dihydrochloride (102 mg, 0.34 mmol) in tetrahydrofuran (6 mL) was added triethylamine (0.23 mL, 1.65 mmol) and then 2-chloro-3-methyl-6-(4-pyridyl)-3H-pyrimidin-4-one (73 mg, 0.33 mmol) at room temperature. After stirring for 24 h, the resulting mixture was concentrated in vacuo. The residue was dissolved in dichloromethane and saturated sodium bicarbonate aqueous solution, and the solution was passed through CHEM ELUT CE1010 (manufactured by VARIAN). The filtrate was concentrated in vacuo to yield crystals, which were washed with diisopropyl ether and ethanol to afford (S)-2-(3-(4-(1,2,4-oxadiazol-3-yl)phenyl) piperazin-1-yl)-3-methyl-6-(4-pyridyl)pyrimidin-4-one (102 mg 74%) as a white powder.

Example 18: Synthesis of 2-[4-(2-Methoxyphenylamino)-piperidin-1-yl]-3-methyl-6-(pyridin-4-yl)-3H-pyrimidin-4-one (No. XB276)

To a solution of anisidine (3.1g, 25.2 mmol) and 4-oxo-piperidine-1-carboxylic acid tert-butyl ester (5.0 g, 25.1 mmol) in methanol (100 mL) was added sodium triacetoxyborohydride (13.4 g, 63.2 mmol) at room temperature. After stirring for 6 h, the resulting suspension was partitioned between ethyl acetate and 1N sodium hydroxide. The aqueous layer was extracted with ethyl acetate. The combined organic layer was washed with brine, dried over magnesium sulfate, and concentrated in vacuo. The residue was purified by silica gel chromatography eluting 10-20 % ethyl acetate in hexane to furnish 4-(2-methoxyphenylamino)-piperidine-1-carboxylic acid tert-butyl ester (2.7g, 8.8mmol, 35%) as a pale yellow oil.

To a solution of 4-(2-methoxyphenylamino)-piperidine-1-carboxylic acid tert-butyl ester (2.7g, 8.8mmol) in methanol (30 mL) was added 4N hydrochloric

acid in ethyl acetate (20 mL) at room temperature. After stirring for 1h, the resulting suspension was concentrated *in vacuo*. The residue was partitioned between chloroform and 1N sodium hydroxide. The aqueous layer was extracted with chloroform. The combined organic layer was washed with brine, dried over magnesium sulfate, and concentrated *in vacuo*. The residue was purified by silica gel chromatography eluting 10-20% methanol in chloroform to furnish 4-(2-methoxyphenylamino)-piperidine (1.8 g, 8.7 mmol, 99%) as white crystals.

To a solution of 4-(2-methoxyphenylamino)-piperidine (0.8 g, 3.87 mmol) and triethylamine (1.3 g, 12.8 mmol) in tetrahydrofuran (20 mL) was added 2-chloro-3-methyl-6-(pyridin-4-yl)-3H-pyrimidin-4-one (0.8 g, 3.61 mmol) portionwise. After stirring for 12 h, the resulting suspension was partitioned between chloroform and 1N sodium hydroxide. The aqueous layer was extracted with chloroform. The combined organic layer was washed with brine, dried over magnesium sulfate, and concentrated in vacuo. The residue was purified by silica gel chromatography eluting 5-10% methanol in chloroform to furnish 2-(4-(2-methoxyphenylamino)-piperidin-1-yl)-3-methyl-6-(pyridin-4-yl)-3H-pyrimidin-4-one (1.2 g, 3.07 mmol, 85%) as white crystals.

Example 19: Synthesis of 3-Methyl-2-(3-(4-(4-methylpiperazin-1-yl)-phenyl)-piperidin-1-yl)-6-(pyridin-4-yl)-3H-pyrimidin-4-one (No. XB278)

A solution of (4-bromo-phenyl)-acetic acid ethyl ester (2.31 g, 9.50 mmol) in dimethylsulfoxide (6 mL) was added to the suspension of sodium hydride (407 mg, 60% in oil, 10.17 mmol) and stirred 3 min. A solution of (3-bromo-propyl)-carbamic acid tert-butyl ester (2.03 g, 8.52 mmol) in dimethylsulfoxide (6 mL) was added to the solution and stirred at 50 °C for 30 min. The resulting solution was partitioned between ethyl acetate and saturated aqueous ammonium chloride. The aqueous layer was extracted with ethyl acetate. The combined organic layer was washed with water and brine, dried by passing through Celite column, and concentrated in

vacuo. The residue was purified by silica gel chromatography eluting ethyl acetate / hexane (4/1 to 3/1, v/v) to afford 3-(4-Bromo-phenyl)-6-tert-butoxycarbonylamino-hexanoic acid ethyl ester (2.43 g, 74%).

To a solution of 3-(4-Bromo-phenyl)-6-tert-butoxycarbonylamino-hexanoic acid ethyl ester (2.43 g, 6.32 mmol) in ethyl acetate (3 mL) was added 4 N hydrogen chloride in ethyl acetate (6 mL) at room temperature. Removal of the solvent in vacuo after stirring for 30 min afforded 6-Amino-3-(4-bromo-phenyl)-hexanoic acid ethyl ester hydrochloride that was used in the next step without further purification.

A solution of 6-amino-3-(4-bromo-phenyl)-hexanoic acid ethyl ester hydrochloride, potassium carbonate (1039 mg, 7.52 mmol) in ethanol (50 ml) was refluxed for 20 hr. Solvent was removed in vacuo after addition of dilute hydrochloric acid and water was added to the residue. Filtration, wash with water and dryness afforded 3-(4-Bromo-phenyl)-piperidin-2-one (1387 mg, 86%, 2 steps).

To an ice-cooled solution of 3-(4-bromo-phenyl)-piperidin-2-one (37.97 g, 149 mmol) in tetrahydrofuran (250 ml) was added borane-tetrahydrofuran complex (335 ml, 1.0 M solution in THF, 335 mmol). The solution was stirred overnight at room temperature, and then refluxed 1.5 hr after addition of 10% aqueous hydrochloric acid. Solvents was removed in vacuo, and the residue was partitioned between dichloromethane and 1N sodium hydroxide. The aqueous layer was extracted with dichlorometane. The combined organic layer was washed with water and brine, dried over sodium sulfate, and concentrated in vacuo. The residue was dissolved in water (100 mL) and concentrated hydrochloric acid (100 mL) and refluxed for 3 hr. Sodium hydroxide was added to the solution and the resulting solution was extracted with dichlorometane. The organic layer was washed with water and brine, dried over sodium sulfate Concentration in vacuo afforded 3-(4-bromo-phenyl)-piperidine (32 18 g, 90%).

To a suspension of 3-(4-bromophenyl)-piperidine (25.2 g, 105 mmol), and

triethylamine (13 g, 128 mmol) in tetrahydrofuran (250 mL) was added di-tert-butyl-dicarbonate (25.2 g, 105 mmol) at room temperature. After stirring for 1 h, the resulting suspension was partitioned between ethyl acetate and 1N sodium hydroxide. The aqueous layer was extracted with ethyl acetate. The combined organic layer was washed with brine, dried over magnesium sulfate, and concentrated in vacuo. The residue was washed by hexane to furnish 3-(4-bromophenyl)- piperidine-1-carboxylic acid tert-butyl ester (35.7 g, 105 mmol, 100%) as white crystals.

To a suspension of 3-(4-bromophenyl)-piperidine-1-carboxylic acid tert-butyl ester (3.0 g, 8.8 mmol), palladium acetate (80 mg, 0.36 mmol), 2-(di-t-butyl phosphino)biphenyl (210 mg, 0.70 mmol), and sodium t-butoxide (1.2 g, 125 mmol) in toluene (30 mL) was added N-methylpiperazine (1.3 g, 13.0 mmol) at room temperature. After heating at 90 °C for 5 h, the resulting suspension was passed through a Celite column. The filtrate was concentrated under reduced pressure, and the residue was purified by silica gel chromatography eluting 5-25% of ethyl acetate in hexane to afford 3-(4-(4-methylpiperazin-1-yl)-phenyl)-piperidine-1-carboxylic acid tert-butyl ester (2.0 g, 5.56 mmol, 63%) as white crystals.

To a solution of 3-(4-(4-methylpiperazin-1-yl)-phenyl)-piperidine-1-carboxylic acid tert-butyl ester (2.0 g, 5.56 mmol) in methanol (20 mL) was added 4N hydrochloric acid in ethyl acetate (20 mL) at room temperature. After stirring for 1h, the resulting suspension was concentrated in vacuo. The residue was washed with ethyl acetate to furnish 3-(4-(4-methylpiperazin-1-yl)-phenyl)-piperidine trihydrochloride (1.84 g, 4.99 mmol, 90%) as white crystals.

To a solution of 3-(4-(4-methylpiperazin-1-yl)-phenyl)-piperidine trihydrochloride salt (0.4 g, 1.08 mmol) and triethylamine (0.6 g, 5.93 mmol) in tetrahydrofuran (10 mL) was added 2-chloro-3-methyl-6-(pyridin-4-yl)-3H-pyrimidin-4-one (0.22 g, 0.99 mmol) portionwise. After stirring for 12 h, the

resulting suspension was partitioned between chloroform and 1N sodium hydroxide. The aqueous layer was extracted with chloroform. The combined organic layer was washed with brine, dried over magnesium sulfate, and concentrated *in vacuo*. The residue was purified by silica gel chromatography eluting 5-10% methanol in chloroform to furnish 3-methyl-2-(3-(4-(4-methylpiperazin-1-yl)-phenyl)-piperidin-1-yl)-6-(piridin-4-yl)-3H-pyrimidin-4-one (0.31 g, 0.70 mmol, 71%) as white crystals.

Example 20: Synthesis of 2-(3-(4-cyclohexylaminophenyl)-piperidin-1-yl)-3-methyl-6-(pyridin-4-yl)-3H-pyrimidin-4-one (No. XB301)

To a suspension of 3-(4-bromophenyl)-piperidine-1-carboxylic acid tert-butyl ester (8.0 g, 23.5 mmol), palladium acetate (210 mg, 0.94 mmol), 2-(di-t-butyl phosphino)biphenyl (560 mg, 1.88 mmol), and sodium t-butoxide (3.2 g, 33.3 mmol) in toluene (80 mL) was added cyclohexylamine (2.8 g, 28.2 mmol) at room temperature. After heating at 90 °C for 5 h, the resulting suspension was passed through a Celite column. The filtrate was concentrated under reduced pressure, and the residue was purified by silica gel chromatography eluting 5-25% of ethyl acetate in hexane to afford 3-(4-cyclohexylaminophenyl)-piperidine-1-carboxylic acid tert-butyl ester (6.74 g, 18.8 mmol, 80%) as white crystals.

To a solution of 3-(4-cyclohexylaminophenyl)-piperidine-1-carboxylic acid tert-butyl ester (6.74 g, 18.8 mmol) in methanol (50 mL) was added 4N hydrochloric acid in ethyl acetate (40 mL) at room temperature. After stirring for 1 h, the resulting suspension was concentrated *in vacuo*. The residue was washed with ethyl acetate to furnish 3-(4-cyclohexylaminophenyl)-piperidine dihydrochloride (5.84 g, 17.6 mmol, 94%) as white crystals.

To a solution of 3-(4-cyclohexylaminophenyl)-piperidine dihydrochloride salt (1.0 g, 3.02 mmol) and triethylamine (1.5 g, 14.8 mmol) in tetrahydrofuran (20

mL) was added 2-chloro-3-methyl-6-(pyridin-4-yl)-3H-pyrimidin-4-one (0.64 g, 2.89 mmol) portionwise. After stirring for 12 h, the resulting suspension was partitioned between chloroform and 1N sodium hydroxide. The aqueous layer was extracted with chloroform. The combined organic layer was washed with brine, dried over magnesium sulfate, and concentrated in vacuo. The residue was purified by silica gel chromatography eluting 5-10% methanol in chloroform to furnish 2-(3-(4-cyclohexylaminophenyl)-piperidin-1-yl)-3-methyl-6-(pyridin-4-yl)-3H-pyrimidin-4-one (1.23 g, 2.77 mmol, 96%) as white crystals.

Example 21: Synthesis of 2-(4-(4-Bromo-phenyl)-piperidin-1-yl)-3-methyl-6-pyridin-4-yl-3H-pyrimidin-4-one (No. XB267)

Mixture of 4-bromobenzaldehyde (22.40 g, 121.1 mmol), dimethyl malonate(19.37 g, 146.6 mmol), cat. acetic acid and cat. piperidine in toluene (100 ml) were refluxed for 6 h with azeotropically removal of water. Resulting solution was partitioned between ethyl acetate and water. The aqueous layer was extracted with ethyl acetate. The combined organic layer was washed with water, saturated aqueous sodium bicarbonate and brine, dried over sodium sulfate. Concentration of the organic solvent in vacuo afforded 2-(4-bromo-benzylidene)-malonic acid diethyl ester as an oil that was used in the next step without further purification.

To an ice-cooled solution of dimethyl malonate (19.35 g, 146.5 mmol) and sodium methoxide (30. 12g in 28% methanol solution, 156.1 mmol) in methanol (300 ml) was added 2-(4-bromo-benzylidene)-malonic acid diethyl ester in methanol (50 ml). After stirring for 3 h, the solvent was removed in vacuo and the residue was partitioned between ethyl acetate and dilute hydrochloric acid. The aqueous layer was extracted with ethyl acetate. The combined organic layer was washed with brine, dried over sodium sulfate. Concentration of the organic solvent in vacuo afforded 3-(4-bromo-phenyl)-2,4-bis-ethoxycarbonyl-pentanedioic acid diethyl ester as an oil that was used in the next step without further purification.

A solution of 3-(4-bromo-phenyl)-2,4-bis-ethoxycarbonyl-pentanedioic acid diethyl ester in concentrated hydrochloric acid (100 ml) and acetic acid (100 ml) was refluxed for 8 h. Removal of the solvent in vacuo and recrystallization of the residue from acetonitrile yielded 3-(4-bromo-phenyl)-pentanedioic acid (22.84 g in 1st crop, 65%, 3.84 g in 2nd crop, 11.05% from 4-bromobenzaldehyde).

A solution 3-(4-bromo-phenyl)-pentanedioic acid (26.68 g, 92.9 mmol) in acetic anhydride (100 ml) was refluxed for 1.5 hr. Removal of the solvent in vacuo, and remaining solvent were azeotropically removed using toluene.

Teterahydrofuran (200 ml) and aqueous ammonia (28%, 50 ml) was added to the residue and stirred overnight. After removal of the solvent in vacuo, acetic anhydride (100 ml) was added and refluxed for 4 hr. After removal of the solvent in vacuo and succeeding azeotropic distillation with toluene, residue was partitioned between ethyl ether and water. Filtration of the suspension and dryness afforded the 4-(4-bromo-phenyl)-piperidine-2,6-dione (12.53 g, 50%) as a solid.

To an ice-cooled solution of lithium tetrahydroborate (4.13 g, 189.6 mmol) in tetrahydrofuran (200 ml) was added chlorotrimethylsilane (41.52 g, 382.2 mmol). After stirring 5 min, a solution of 4-(4-bromo-phenyl)-piperidine-2,6-dione (12.53 g, 46.7 mmol) was added and stirred overnight. The resulting solution was concentrated in vacuo after addition of 10% aqueous hydrochloric acid. The residue was dissolved in aqueous sodium hydroxide solution and methanol, and a solution of di-tert-butyl dicarbonate (11.45 g, 52.5 mmol) in methanol (10 ml) was added and stirred for 6 h. After removal of the solvent in vacuo, concentrated hydrochloric acid wad added and stirred overnight. After extraction of the solution by diethyl ether, sodium hydroxide was added to the aqueous layer to turn basic, and extracted with dichloromethane. The organic layer was washed with brine, dried over sodium sulfate. The residue of the diethyl ether and dichloromethane after removal of the solvents under reduced pressure was mixed and dissolved in tetrahydrofuran (200 ml). A solution of di-tert-butyl dicarbonate (7.45 g, 34.1 mmol) in tetrahydrofuran

(10 ml) and triethylamine were added and stirred overnight. The resulting solution was concentrated in vacuo. Purification of the residue by silica gel chromatography eluting hexane / ethyl acetate (5/1, v/v) furnished
4-(4-bromo-phenyl)-piperidine-1-carboxylic acid tert-butyl ester (14.4g, 91%) as a solid.

To a solution of furnished 4-(4-bromophenyl)-piperidine-1-carboxylic acid tert-butyl ester (1114 mg, 3.27 mmol) in ethyl acetate (1 mL) was added 4 N hydrogen chloride in ethyl acetate (2 mL) at room temperature. After stirring for 5 h, solvent was removed in vacuo, and the resulting solid was washed with ethyl acetate and dried in vacuo to afford (4-(4-bromophenyl)-piperidine hydrochloride (884 mg, 98%) as a white solid.

A solution of (4-(4-bromophenyl)-piperidine hydrochloride (279 mg, 1.01 mmol) and triethylamine (554 mg, 5.47 mmol), 2-chloro-3-methyl-6- (pyridin-4-yl)-3H-pyrimidin-4-one (206 mg, 0.929 mmol) in tetrahydrofuran (20 mL) was stirred for 3 hr. The resulting solution was diluted with tetrahydrofuran and filtrated. After removal of the solvents under reduced pressure and the purification of the resulting residue by CHEM ELUT CE1010 (manufactured by VARIAN) eluting dichloromethane / ethanol (15/1, v/v) and wash with ethyl acetate afforded 2-(4-(4-Bromophenyl)-piperidin-1-yl)-3-methyl-6-pyridin- 4-yl-3H-pyrimidin-4-one (368 mg, 93%) as a solid.

Example 22: Synthesis of 3-Methyl-6-pyridin-4-yl-2-[4-(4-pyrrolidin-1-yl-phenyl)-piperidin-1-yl]-3H-pyrimidin-4-one (No. XB269)

A suspension of 4-(4-Bromophenyl)-piperidine-1-carboxylic acid tert-butyl ester (1.97 g, 5.79 mmol), palladium acetate (54 mg, 0.24 mmol), 2-(di-t-butylphosphino)biphenyl (154 mg, 0.52 mmol), and sodium t-butoxide (846 mg, 8.80 mmol), pyrrolidine (587 mg, 8.25 mmol) in toluene (80 mL) was heated at 90 °C for 3 h under nitrogen atmosphere. The resulting suspension was passed through a

Celite column and partitioned between ethyl acetate and water. The aqueous layer was extracted with ethyl acetate. The combined organic layer was washed with brine, dried over sodium sulfate, and concentrated in vacuo. Purification of the residue by HPLC afforded 4-(4-pyrrolidin-1-yl-phenyl)-piperidine-1-carboxylic acid tert-butyl ester as a solid that was used in the next step without further purification.

To a solution of furnished 4-(4-Pyrrolidin-1-yl-phenyl)-piperidine-1-carboxylic acid tert-butyl ester in ethyl acetate (5 mL) was added 4 N hydrogen chloride in ethyl acetate (10 mL) at room temperature. After stirring for 3 h, solvent was removed in vacuo, and the resulting solid was purified by HPLC. Sodium hydroxide was added to the resulting fractions and the aqueous layer was extracted by dichloromethane. Organic layer was washed with brine, and passed through Cerite. Removal of the solvent under reduced pressure afforded 4-(4-pyrrolidin-1-yl-phenyl)-piperidine (1.01 g, 76%).

A solution of 4-(4-pyrrolidin-1-yl-phenyl)-piperidine (215 mg, 0.933 mmol) and triethylamine (391 mg, 3.86 mmol), 2-chloro-3-methyl-6-(pyridin-4-yl)-3H-pyrimidin-4-one (187 mg, 0.844 mmol) in tetrahydrofuran (10 mL) was refluxed for 5 hr. The resulting solution was diluted with tetrahydrofuran and filtrated. After removal of the solvents under reduced pressure and the purification of the resulting residue by CHEM ELUT CE1010 (manufactured by VARIAN) eluting dichloromethane / ethanol (15/1, v/v) and wash with ethyl acetate afforded 3-methyl-6-pyridin-4-yl-2-(4-(4-pyrrolidin-1-yl-phenyl)-piperidin-1-yl)-3H-pyrimidin-4-one (284 mg, 81%) as a solid.

Example 23: Synthesis of 2-(4-(6-Fluorobenzo[b]thiophen-3-yl)piperidin-1-yl)-1-methyl-1H-[4,4']bipyrimidinyl-6-one (No. YB253)

The key intermediate 4-(6-fluorobenzo[b]thiophen-3-yl)piperidine hydrochloride of 2-[4-(6-fluorobenzo[b]thiophen-3-yl)piperidin-1-yl]-1-methyl- 1H-

[4,4']bipyrimidinyl-6-one was synthesized from 1-acetylpipridine-4-carboxylic acid which was prepared according to the method reported by Watanabe (*J. Heterocyclic Chem.*, 30, 445 (1993)).

To a solution of 1-benzoylpiperidine-4-carboxylic acid (66 g, 285 mmol) in dichloromethane (160 mL) was added thionyl chloride (26 mL, 388 mmol). After stirring at 60°C for 1 h, the mixture was added portionwise to a stirred suspension of 2,4-difluorobenzene (45 g, 397 mmol) and anhydrous aluminum chloride (88 g, 666 mmol) in dichloromethane (245 mL), and the reaction mixture was refluxed for 5 h. The reaction mixture was poured into a mixture of ice and concentrated hydrochloric acid and extracted with chloroform. The organic layer was dried over sodium sulfate and the solvent was evaporated under reduced pressure.

Recrystallization from hexane gave 1-benzoyl-4-(2,4 -difluorobenzoyl)piperidine (46 g, 50%) as colorless crystals.

A solution of 1-benzoyl-4-(2,4-difluorobenzoyl)piperidine (40 g, 120 mmol), methyl thioglycolate (12 mL, 130 mmol) in dimethylformamide (500 mL) was stirred at room temperatute for 12h. The solvent was evaporated off in vacuo and the residue treated with water and ethyl acetate. The organic layer was dried over sodium sulfate and the solvent was evaporated under reduced pressure. The obtained residue was purified by silica gel column chromatography eluting hexane/ethyl acetate to give 3-(1-benzoylpiperidin-4-yl)-6-fluorobenzo[b]thiophene-2 -carboxylic acid (11.8 g, 26%) as an oil.

3-(1-Benzoylpiperidin-4-yl)-6-fluorobenzo[b]thiophene-2-carboxylic acid (10 g, 26 mmol) was suspended in quinoline (100 mL) and cupper powder (0.5g) was added. After stirring at 200°C for 1 h, the mixture was cooled to room temperature and partitioned between ethyl acetate and water. The organic layer was dried over magnesium sulfate and evaporated. The obtained residue was purified by silica gel column chromatography eluting hexane/ ethyl acetate to give (4-(6-

 ${\bf fluorobenzo} \ [b] thiophen-3-yl) piperidin-1-yl) phenylmethanone (5.0~{\tt g},\,48\%) \ {\bf as} \ yellow$

crystals.

A solution of (4-(6-fluorobenzo[b]thiophen-3-yl)piperidin-1-yl) phenylmethanone (6.5 g, 19 mmol) in acetic acid (100 mL) and concentrated hydrochloric acid (100 mL) was stirred at 90°C for 10 h. To a solution of reaction mixture was added ethyl acetate. The precipitated crystals were collected by filtration and washed with ethyl acetate to give 4-(6-fluorobenzo[b]thiophen-3-yl)piperidine hydrochloride (4.8 g, 89%) as yellow crystals.

To a solution of 4-(6-fluorobenzo[b]thiophen-3-yl)piperidine hydrochloride (200 mg, 0.74 mmol) and 2-chloro-1-methyl-1H[4,4']bipyrimidinyl-6-one (160 mg, 0.70 mmol) in tetrahydrofuran (10 mL) was added triethylamine (212 mg, 2.1 mmol). The mixture was stirred at 90°C for 6 h. The solvent was evaporated off in vacuo and the residue was treated with water and chloroform. The organic layer was dried over sodium sulfate and the solvent was evaporated under reduced pressure. Recrystallization from ethyl acetate gave 2-[4-(6-fluorobenzo[b]thiophen-3-yl)piperidin-1-yl]-1-methyl-1H[4,4']bipyrimidinyl-6-one (220 mg, 96%) as colorless crystals.

Example 24: Synthesis of 2-(4-(Biphenyl-2-yl)piperazin-1-yl)-1-methyl-1*H*-[4,4']bipyrimidinyl-6-one (No. YA1552)

To a solution of 1-biphenyl-2-yl-piperazine dihydrochloride (311 mg, 1.0 mmol) and 2-chloro-1-methyl-1*H*-[4,4']bipyrimidinyl-6-one (202 mg, 0.91 mmol) in tetrahydrofuran (20 mL) was added triethylamine (404 mg, 4.0 mmol). The mixture was stirred at 90°C for 4 h. The solvent was evaporated off *in vacuo* and the residue treated with water and chloroform. The organic layer was dried over sodium sulfate and the solvent was evaporated under reduced pressure. Recrystallization from ethyl acetate gave 2-[4-(biphenyl-2-yl)piperazin-1-yl]-

1-methyl-1H-[4,4']bipyrimidinyl-6-one (250 mg, 65%) as colorless crystals.

The compounds in the following table were prepared in the same manner as the methods described above. The compound numbers in the following table correspond to those shown in the above-described table of preferred compounds.

Table 5

NO	NMR	Exact-MS
XA19	2.51-2.89(4H, m), 3.31-3.34(4H, m), 3.39(3H,s), 3.56(2H, s), 6.80(1H, s), 7.25-7.31(1H, m), 7.31-7.36(4H, m), 7.98(2H, dd, J=1.5, 4.8 Hz), 8.68(2H, dd, J=1.5, 4.5 Hz)(DMSO-d6)	362
XA25	3.32-3.34(4H, m), 3.46(3H, s), 3.48-3.51(4H, m), 6.80-6.85(1H, m), 6.84(1H, s), 7.01(2H, d, J=8.0 Hz), 7.23-7.28(2H, m), 8.00(2H, dd, J=1.3, 4.6 Hz), 8.70(2H, dd, J=1.5, 4.5 Hz)(DMSO-d6)	348
XA156	3.47(3H,s), 3.51-3.60(4H, m), 3.62-3.71(4H, m), 6.85(1H, s), 7.41-7.49(1H, m), 7.56-7.61(1H, m), 8.02(2H, dd, J=1.5, 4.5 Hz), 8.09(1H, d, J=8.1 Hz), 8.16(1H, d, J=8.1 Hz), 8.70(2H, dd, J=1.5, 4.8 Hz)(DMSO-d6)	405
XA289	1.11-1.28(3H, m), 2.98-3.16(1H, m), 3.28-3.41(1H, m), 3.39(3H, s), 3.54-3.80(3H, m), 3.88-3.99(1H, m), 4.08-4.26(4H, m), 4.32-4.45(1H, m), 7.13(1H, s), 7.37-7.53(5H, m), 8.45(2H, d, J=5.8 Hz), 8.96(2H, d, J=6.0 Hz) (DMSO-d6)	434
XA361	3.44(3H,s), 3.54-3.95(6H,m), 4.64(1H,brs), 7.11(1H,s), 7.42-7.51(3H,m), 7.74(2H,d,J=6.6Hz), 8.46(2H,d,J=5.7Hz), 8.94(2H,d,J=5.7Hz), 9.98(1H,brs), 10.46(1H, brs) (DMSO-d6).	348
XA364	(DMSO-d6): 3.41-3.76(4H, m), 3.48(3H, s), 3.89-4.01(2H, m), 4.96(1H, m), 7.16(1H, s), 7.33-7.58(3H, m), 8.11(1H, dd, J=7.2, 7.2Hz), 8.52(2H, d, J=6.6Hz), 8.97(2H, d, J=6.6Hz), 10.04(1H, m), 10.66(1H, m).	366
XA365	3.43(s, 3H), 3.51-3.96(m, 6H), 4.70(m, 1H), 7.00(s, 1H), 7.25(m, 1H), 7.54(m, 2H), 7.60(m, 1H), 8.20(d, J=5.7Hz, 2H), 8.80 (d, J=5.7Hz, 2H)(CDCl3)	366
XA366	2.27-2.85(1H, m), 2.94-3.08(3H, m), 3.43(3H,s), 3.59-3.67(2H, m), 3.94-3.97(1H, m), 6.81(1H, s), 7.19(2H, t, J=8.9 Hz), 7.50-7.55(2H, m), 7.96(2H, dd, J=1.6, 4.5 Hz), 8.68(2H, dd, J=1.5, 4.6 Hz)(DMSO-d6)	366

XA366	3.35-3.50(2H, m), 3.46(3H, s), 3.58-3.75(2H, m), 3.86-3.97(2H, m), 4.68(1H, t, J=9.3 Hz), 7.15(1H, s), 7.35(2H, t, J=9.0 Hz),	
(HCI)	7.82-7.87(2H, m), 8.48(2H d l=6 6 Hz)	366
	8.96(2H, d, J=6.3 Hz), 9.55-10.08(1H, m), 10.54-10.70(1H, m)(DMSO-d6)	
	(CDCl3):2.81(1H,dd,J=10.4,12.5Hz), 3.18-3.40(3H,m), 3.50-3.80(5H,m),	
XA369	4.50(1H,dd,J=2.5,10.1Hz), 6.67(1H c)	
	7.20-7.45(3H,m), 7.74(1H,dd,J=1.9,7.6Hz), 7.81(2H,dd,J=1.4,4.6Hz),	382
	8.70(2H,dd,J=1.4.4.6Hz)	
	(CDCl3):3.01(1H,dd,J=10.4,12.5Hz), 3.10-3.30(3H,m), 3.50-3.80(5H,m),	
XA370	4.04(1H,dd,J=2.7,10.8Hz), 6.67(1H s)	
	7.20-7.45(4H,m), 7.50(1H,s), 7.80(2H,dd,J=1.5,4.8Hz),	382
	8.71(2H,dd,J=1.5.5.1Hz)	
	3.44(3H,s), 3.44-3.71(7H,m), 3.90(2H,m), 4.66(1H,brs), 7.11(1H,s),	
XA371	7.55(2H,d,J=8.4Hz), 7.78(2H,d, l=8.4∐-)	202
	8.50(2H,d,J=5.7Hz), 8.95(2H,d,J=5.7Hz)	382
	10.13(1H,brs), 10.60(1H,brs)(DMSO-d6)	
V4070	(DMSO-d6):3.45(3H,s), 3.50-4.20(6H,m),	
XA376	4.00(1H,Drs), 7.12(1Hs) 7.72(4Hs)	426
	8.44(2H,d,J=6.6Hz), 8.94(2H,d,J=6.6Hz), 10.00(1H,br s), 10.05(1H,br s).	
	3.37-3.93(6H, m), $3.48(3H, s)$, $3.87(3H, s)$	
XA391	4.89-4.95(1H, m), 7.04-7.12(2H, m), 7.17(1H, d, J=8.5 Hz), 7.45-7.51(1H, m),	
AASSI	/./5-/.61(1H, m), 8.29-8.38/2H m)	378
	8.83-8.91(2H, m), 9.66-9.77(1H, m), 9.91-10.10(1H, m)(DMSO)	
	(DMSO-d6) :3.30-3.58(5H m)	
	3.58-3.80(2H,m), 3.81(3H,s), 3.85-4.00(2H,m), 4.58-4.75(1H,m),	
XA392	[/.03(1H,dd,J=1.8,8.1Hz), 7.11(1H s)	378
	1.40(T,Q,J=1.8Hz), 7.35-7.50(2H m)	.0.0
	8.41(2H,d,J=5.7Hz), 8.92(2H,d,J=6.0Hz), 9.80-10.00(1H,brd), 10.30-10.60(1H,brd).	
	3.40-3.43(3H,m), 3.51-3 63(2H m)	
XA393	3.78(3H,s), 3.93(2H,m),4.58(1H,br), 7.02-7.06(3H,m), 7.64(2H,d,J=8.7Hz),	270
	8.34(2H,d,J=6.3Hz), 8.88(2H,d,J=8.7Hz)	378
	9.76(1H,br), 10.16(1H,br)(DMSO-d6) 1.30(3H, t, J=6.9 Hz), 3.38-3.54(1H, m),	
	3.49(3H, S), 3.65-3.79(1H m) 3 84-3 00/2H	
XA396	m), 4.02-4.18(2H, m), 4.84(1H, t, J=10.5 Hz), 7.04-7.16(2H, m), 7.15(1H, s), 7.39-7.45(1H,	
	'''/, / '05(10, 0, J=6.6 HZ) 8.49(2H d l=6.3 l	392
	112/, 0.85(20, 0, J=6.6 Hz), 9.92(1H d J=0.3)	
————— <u>—</u>	Hz), 10.51-10.64(1H, m)(DMSO-d6)	

	(DMCO 46)-2 04(0)	
	(DMSO-d6):3.64(2H,m),	
1	3.94(2H,t,J=11.4Hz), 4.02-4.40(5H,m),	
XA406	4.78(1H,t,J=10.4Hz), 7.06(1H,s),	
77400		373
1	1 0.20(111,00,0-1,2,5,1Hz)	1
	9.02(1H,d,J=5.1Hz), 9.31(1H,d,J=1.2Hz),	
		1
ł	(CDCI3).2.00(4H m)	
İ	3.03(1H,dd,J=10.8,12.0Hz), 3.21(3H,m),	
	1 4.44(41 1.111), 3.37(3H.S) 3 62/2H	
XA433	0.30(, , ,	1
	6.5/(2H,d,J=8.7Hz)	417
1	7.29(2H,d,J=8.7Hz), 7.80(2H,d,J=4.8Hz),	
ļ	8.70(2H,d,J=4.8Hz).	1
	(CDCl3):3.02(1H,dd,J=10.7,12.4Hz),	
J	3.18(7H m) 3.55(2H a) 3.22(2Hz),	
	3.18(7H,m), 3.55(3H,s), 3.62(2H,m),	
XA439	3.87(4H,m), 3.96(1H,dd,J=2.5,11.1Hz),	
	0.00(!! i,0), 0.93(2H,d .1=8 7H=1	434
	7.36(2H,d,J=8.7Hz), 7.79(2H,d,J=4.5Hz),	
	0.70(4n,0,J=4,5H2)	
	(CDCl3):2.36(3H,s), 2.59(4H,m),	
	3.04(10,GJ=11,6Hz) 3 22/7H m/	1
XA442	1 3.33(3H,8), 3.63(2H,m)	
	3.94(1H,d,J=10.5Hz) 6 66/1U 6)	446
	0.83(4H,Q,J=8.7Hz) 7 3//2H d i=0 zu \	
		ĺ
	1 9 1 1 9 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	m), 3.78(3H, s), 3.82(3H, s), 3.86-3.93(2H, m), 4.89(1H, t), 1.40, 511, 1.30	
	m), 4.89(1H, t, J=10.5 Hz), 6.97-7.01(1H, m),	
XA463	7.08(1H d l=0.0 H=) 7.45(4)	i
AA463	7.08(1H, d, J=9.0 Hz), 7.15(1H, s), 7.66(1H, d, J=3.0 Hz), 8.51(2H, s), 7.66(1H, s)	408
	1 -1 - 0.0 1141, 0.0 11/11 0 1=6 2 0-1 0 00/01	400
	1 "' " " " " ' ' ' ' ' ' ' ' ' ' ' ' ' '	
	10.60-10.73(1H, m)(DMSO-d6)	ļ
	(DMSO-d6): 3 45(311 -) 0 00	1
	(DMSO-d6): 3.45(3H, s), 3.38-3.81(6H, m),	
XA464	I VIVIOLO IL SI. SUBLIH MI GOS/SII I	}
77404	J=8.7Hz), 7.04(1H, s), 7.44(1H, t, J=8.4Hz),	408
	(*'**('')	700
	(-, - 0.0112), 10.07((H. M)	
.	3.40-3.50(4H, m), 3.47(3H, s), 3.93, 3.04(0H,	
j	1, 0.00(0) 1, 3), 4.01-4 41/1H m	
XA468	0.94-0.99(1H, m) 7.07-7.40/44	
77400	7.12(1H, s), 7.79-7.91(1H, m), 8.30-8.40(2H, m), 8.85-8.92(2H, m)	396
- 1	m), 8.85-8 92(2H m), 0.70 0.75 (1H, m), 8.30-8.40(2H,	330
1	m), 8.85-8.92(2H, m), 9.70-9.79(1H, m),	
	10.02-10.23(1H, m)(DMSO)	
ļ	(DMSO-d6):3.38-3.60(6H,m),	
	3.60-3.80(1H,m) 3.80-4.00(5H,m),	i
XA469/	4.00-4.9/(1H.m), 6.85-7.00/4H m)	1
XA470	1.03(10,00,J=2.4.11.4Hz) 7.12/14 a)	306
i	7.00(11,00,0=0,9.8./Hz)	396
	0.46(2H.d.J=6.6Hz) 9.04/211 4 1 2 2	
	9.99 10.000 (FILDIN) 10 35_10 60/411 1 0 1	ľ
	3.36-4.00(6H, m), 3.46(3H, s), 3.94(3H, s),	
	4 04 E 66 (3H, s), 9.70(3H, s), 3.94(3H, s).	
1	4.94-5.02(1H m) 6 06 7 04/21 . ' ' '/' !	
-	, 0.02(III, III), b.9b-/ (11/10 m)	}
XA472	7.05(1H, d, J=8.6 Hz), 7.14(1H, n)	200
XA472	7.05(1H, d, $J=8.6$ Hz), 7.14(1H, s), 7.49-7.58(1H, m), 8.44-8.50(2H, s),	396
XA472	7.05(1H, d, J=8.6 Hz), 7.14(1H, n)	396

	10.79/1H dd 1-40.0 40.4 H	
XA480	2.78(1H, dd, J=10.0, 12.1 Hz), 3.18-3.27(3H, m), 3.59(3H, s), 3.64-3.74(2H, m), 3.86(3H, s), 4.37(1H, dd, J=2.4, 10.1 Hz), 6.67(1H, s), 6.89(1H, d, J=2.1 Hz), 6.99(1H, dd, J=1.7, 8.0 Hz), 7.50(1H, d, J=8.2 Hz), 7.82(2H, dd, J=1.5, 4.8 Hz), 8.71(2H, dd, J=1.8, 4.5 Hz)(CDCI3)	412
XA490 (2HCI)	3.35-3.94(6H, m), 3.49(3H, s), 4.71-4.80(1H, m), 7.02-7.11(1H, m), 7.18-7.28(2H, m), 7.98-8.10(1H, m), 8.31-8.48(2H, m), 8.87-8.97(2H, m), 9.79-9.92(1H, m), 10.18-10.39(1H, m) (DMSO)	380
XA501	(CDCl3):2.77(1H,dd,J=10.2,12.0Hz), 3.15-3.35(3H,m), 3.50-3.80(5H,m), 3.84(3H,s), 4.39(1H,d,J=7.8Hz), 6.67(1H,s), 6.78(1H,d,J=8.8Hz), 7.39(1H,dd,J=2.4,8.7Hz), 7.71(1H,d,J=2.3Hz), 7.82(2H,d,J=6.0Hz), 8.71(2H,d,J=6.0Hz).	456
XA510	(CDCl3): 1.98-2.05(4H, m), 2.85(1H, dd, J=12, 10.5Hz), 3.17-3.24(7H, m), 3.58(3H, s), 3.65-3.72(2H, m), 3.85(3H, s), 4.28(1H, dd, 10.5, 2.7Hz), 6.10(1H, d, J=2.1Hz), 6.18(1H, dd, J=8.7, 2.1Hz), 6.65(1H, s), 7.33(1H, d, J=8.4Hz), 7.83(2H, dd, J=4.5, 1.8Hz), 8.70(2H, dd, J=4.5, 1.5Hz).	447
XA511	(CDCl3):1.90-2.05(4H,m), 2.93(1H,t,J=12.0Hz), 3.15-3.40(7H,m), 3.59(3H,s), 3.65-3.85(5H,m), 4.11(1H,dd,J=2.1,10.2Hz), 6.49(1H,dd,J=3.0,9.0Hz), 6.66(1H,s), 7.83(2H,dd,J=1.8,4.5Hz), 8.70(2H,dd,J=1.5,4.5Hz).	447
XA516	(DMSO-d6):3.20-3.70(4H,m), 3.70(1H,m), 3.98(3H,s), 3.99(3H,s), 4.00(1H,m), 4.96(1H,d,J=10.2Hz), 7.01(1H,s), 7.03(2H,m), 8.26(2H,d,J=6.1Hz), 8.53(1H,s), 8.84(2H,d,J=6.1Hz), 10.25(1H,d,J=10.7Hz)	414
XA525	(DMSO-d6):3.30-3.50(2H,m), 3.48(3H,s), 3.55-3.78(2H,m), 3.78(3H,s), 3.96(2H,d,J=13.5Hz), 4.69(1H,t,J=10.4Hz), 7.06(1H,t,J=7.4Hz), 7.12(1H,s), 7.14(1H,d,J=7.4Hz), 7.31(1H,d,J=7.4Hz), 7.39(1H,t,J=7.4Hz), 7.59(2H,d,J=8.3Hz), 7.77(2H,d,J=8.3Hz), 8.43(2H,d,J=6.5Hz), 8.93(2H,d,J=6.5Hz), 9.89(1H,d,J=8.7Hz), 10.34(1H,s).	454
XA527	(DMSO-d6):3.40-4.10(9H,m), 3.81(3H,s), 4.69(1H,m), 7.05(1H,s), 7.05(2H,d,J=9.0Hz), 7.67(2H,d,J=9.0Hz), 7.75(4H,s), 8.27(2H,d,J=5.7Hz), 8.85(2H,d,J=5.7Hz), 9.75(1H,s), 10.04(1H,s).	454

	1 (DMOO 10) 0 10 0	
XA536	(DMSO-d6):3.40-3.60(2H,m), 3.47(3H,s), 3.68(2H,m), 3.95(2H,m), 4.71(1H,t,J=9.9Hz), 7.16(1H,s), 7.33(2H,t,J=8.85Hz), 7.78(6H,m), 8.50(2H,d,J=6.3Hz), 8.97(2H,d,J=6.3Hz), 10.02(1H,s), 10.50(1H,s).	443
XA543	3.52(s, 3H), 3.57-4.10(m, 6H), 5.57(m, 1H), 7.02(s, 1H), 7.53-7.70(m, 2H), 8.06(d, J=7.2Hz, 2H), 8.21-8.34(m, 3H), 8.82(d, J=6.3Hz, 2H), 9.88-9.92(m, 1H), 10.58-10.61(m, 1H)(DMSO d6)	398
XA544	3.41-3.59(2H, m), 3.49(3H, s), 3.68-3.76(2H, m), 3.97-4.02(2H, m), 4.78-4.89(1H, m), 7.15(1H, s), 7.58-7.63(2H, m), 7.89-8.07(4H, m), 8.30(1H, s), 8.49(2H, d, J=6.3 Hz), 8.95(2H, d, J=6.3 Hz), 10.17(1H, d, J=8.4 Hz), 10.57-10.70(1H, m)(DMSO-d6)	398
XA619	(CDCl3): 2.98(1H, dd, J=12.6, 10.8Hz), 3.17-3.28(5H, m), 3.58(3H, s), 3.62(1H, m), 3.79(1H, m), 4.26(1H, dd, 10.5, 2.7Hz), 4.62(2H, m), 6.66(1H, s), 6.88(1H, t, J=7.5Hz), 7.16(1H, d, J=7.2Hz), 7.27(1H, m), 7.84(2H, d, J=6.0), 8.70(2H, dd, J=4.8, 1.2Hz).	390
XA626	3.33-3.41(4H, m), 3.42(3H, s), 3.47-3.87(4H, m), 6.84(1H, s), 7.44-7.49(5H, m), 7.99(2H, dd, J=1.5, 4.5 Hz), 8.69(2H, dd, J=1.4, 4.8 Hz)(DMSO-d6)	376
XA649	3.44(3H, s),3.37-4.04(9H, m),4.67(1H, d,J=9.6Hz),7.10(1H, s),7.45-7.55(3H, m),7.83(2H, d,J=6.0Hz),8.47(2H, d,J=6.6Hz),8.95(2H, d,J=6.6Hz),12.15(1H, brs)(DMSO-d6)	362
XA756	(CDCl3):2.50-2.61(1H,m), 2.80-2.95(1H,m), 3.05-3.20(1H,m), 3.25-3.40(1H,m), 3.50-3.60(1H,m), 3.57(3H,s), 3.65-3.75(1H,m), 3.75-3.80(1H,m), 3.85(3H,s), 6.60-6.80(3H,m), 7.47(1H,dd,J=7.2,8.4Hz), 7.82(2H,dd,J=1.5,4.5Hz), 8.71(2H,dd,J=1.5,4.5Hz).	410
XA757/ XA758	(DMSO-d6):2.54(3H,s), 3.40-3.79(3H,m), 3.46(3H,s), 3.80-4.10(6H,m), 4.83-5.10(1H,m), 6.90-7.05(1H,m), 7.08(1H,s), 7.13(1H,dd,J=2.7,11.4Hz), 8.00-8.25(1H,brd), 8.37(2H,d,J=6.3Hz), 8.91(2H,d,J=6.6Hz), 11.80-12.20(1H,brd)	410
XA831	2.55(s, 3H), 3.51(s, 3H), 3.67-3.82(m, 4H), 4.04-4.08(m, 2H), 5.64(m, 1H), 7.05(s, 1H), 7.59-7.72(m, 3H), 8.06-8.11(m, 2H), 8.35(d, J=6.6Hz, 2H), 8.41(d, J=7.8Hz, 1H), 8.49 (d, J=6.9Hz, 1H), 8.84(d, J=6.6Hz, 2H)(DMSO d6)	412

1	(DMCO 46) -2 45 0 07	
	(DMSO-d6):3.15-3.35(1H,m),	
XA	3.38-3.60(4H,m), 3.75-4.15(8H,m),	1
1016	4.18-4.25(1H,m), 4.90-5.20(1H,m),	486
1	17.00-7.2013M M) / 30-7 EE/GH>	1
	10.00-0.700m m1 4 00/2D 4 1-6 60 5	
	1 (99 9 0) 1 1 00 2 47 (3 m) 2 00 9 9 9 7 (4 i)	
ł	m), 3.40-3.62(1H, m), 3.65-4.23(6.8H,m),	į
XA	4 63-4 90(0 6H m) 5 40 5 32(6.8H,m),	
1276	4.63-4.90(0.6H, m), 5.40-5.62(0.7H, m),	400
1270	1 5.00-0.00(0.1H, m), 6.52-6 78/3H m	438
	0.90-7.2(1H, M), 7.68-7.90/2H m)	
	10.04-0.00(2H.M)	
•	1.48(3H, s), 1.57(3H, s), 3.50(3H, s),	
	3.51-3.66(2H, m), 3.72-3.76(1H, m),	
	3 90(3H s) 3 00(4H d) 40 (1H, m),	
XA	3.90(3H, s), 3.99(1H, d, J=13.4 Hz),	
1649	5.15-5.23(1H, m), 7.08-7.12(2H, m),	
1049	//·IO(III, Q, J=8.6 Hz), 7 46-7 40/14	406
	10.04-0.11(10, m), 8.37-8 45/2H m)	
	8.89-8.97(2H, m), 9.49-9.60(1H, m),	
	9.95-10.11(1H, m)(DMSO)	1
	3.01 (1H dd 1 = 10.0 do 0	<u> </u>
	3.01 (1H, dd, J = 10.8, 12.9 Hz), 3.10-3.30	
XA	1 (21) 111/1 3.30-3.75 (5H m) 1/01/40 aa i	1
1973	1 1 10.0 112/, 0.07 (1H, S), 7 20.7 A0 7AU	200
1070	1 "'/1 ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	382
	Hz), 8.71 (2H, dd, J = 1.5, 5.1 Hz) (CDCl3)	
	2 90 (41) 44 1 (00013)	
	2.80 (1H, dd, J = 10.3, 12.2 Hz), 3.15-3.30	i ————
	(♥゚゚)	
XA	~·~; 'V·V !!4]; 0.0/ (H. S) / 10-7 20 /4Li	
1974	m), 7.25-7.40 (1H, m), 7.58 (1H, dd, J = 1.0,	
1074	8.1 Hz), 7.73 (1H, dd, J = 1.6, 7.8 Hz), 7.81	426
	(2H, dd, l = 1.6.4.5 Hz), 7.81	
	(2H, dd, J = 1.6, 4.5 Hz), 8.70 (2H, dd, J = 1.6, 4.5 Hz) (CDCl3)	
	1 ''Y, T'O 112/ (CDC13)	
	2.95-3.10 (1H, m), 3.10-3.35 (3H, m), 3.56	
XA	(VII)	
1975	V·V· III, S/, D.O/ IM	
	6.90-7.10 (2H m) 7.80 (2H dd 1/2)	407
		407
	6.90-7.10 (2H, m), 7.80 (2H, dd, J = 1.8, 6.3 Hz), 8.71 (2H, dd, J = 1.5, 4.8 Hz), 8.71 (2H, dd, J = 1.5, 4.8 Hz)	407
	· '-/, '-/, ' (4), 'UU, J = 1.5 A X H2/ (CDC)2/ 1	407
	3.40 (3H, m), 3.45 (3H, s), 3.53-3.06 (2H, m)	407
ХА	3.40 (3H, m), 3.45 (3H, s), 3.53-3.96 (3H, m), 4.68 (1H, t, J = 13.5Hz), 7.10 (1H, s), 7.00	407
XA 1976	3.40 (3H, m), 3.45 (3H, s), 3.53-3.96 (3H, m), 4.68 (1H, t, J = 13.5Hz), 7.10 (1H, s), 7.60 (2H, d, J=8.3Hz), 7.76 (2H, d, J=8.3Hz), 2.00	
XA 1976	3.40 (3H, m), 3.45 (3H, s), 3.53-3.96 (3H, m), 4.68 (1H, t, J = 13.5Hz), 7.10 (1H, s), 7.60 (2H, d, J=8.3Hz), 7.76 (2H, d, J=8.3Hz), 8.38 (1H, br s), 8.91 (1H, d, J=4.8Hz), 0.82 (4H;	382
	3.40 (3H, m), 3.45 (3H, s), 3.53-3.96 (3H, m), 4.68 (1H, t, J = 13.5Hz), 7.10 (1H, s), 7.60 (2H, d, J=8.3Hz), 7.76 (2H, d, J=8.3Hz), 8.38 (1H, br s), 8.91 (1H, d, J=4.8Hz), 0.82 (4H;	·
	3.40 (3H, m), 3.45 (3H, s), 3.53-3.96 (3H, m), 4.68 (1H, t, J = 13.5Hz), 7.10 (1H, s), 7.60 (2H, d, J=8.3Hz), 7.76 (2H, d, J=8.3Hz), 8.38 (1H, br s), 8.91 (1H, d, J=4.8Hz), 9.88 (1H, br s), 10.31 (1H, br s) (DMSO-d6)	·
	3.40 (3H, m), 3.45 (3H, s), 3.53-3.96 (3H, m), 4.68 (1H, t, J = 13.5Hz), 7.10 (1H, s), 7.60 (2H, d, J=8.3Hz), 7.76 (2H, d, J=8.3Hz), 8.38 (1H, br s), 8.91 (1H, d, J=4.8Hz), 9.88 (1H, br s), 10.31 (1H, br s) (DMSO-d6) 3.40(3H, m), 3.46(3H, s), 3.62(1H, dd	·
	3.40 (3H, m), 3.45 (3H, s), 3.53-3.96 (3H, m), 4.68 (1H, t, J = 13.5Hz), 7.10 (1H, s), 7.60 (2H, d, J=8.3Hz), 7.76 (2H, d, J=8.3Hz), 8.38 (1H, br s), 8.91 (1H, d, J=4.8Hz), 9.88 (1H, br s), 10.31 (1H, br s) (DMSO-d6) 3.40(3H, m), 3.46(3H, s), 3.62(1H, dd, J=12.0, 13.2Hz), 3.72(1H, m), 3.92(4H, dd)	·
1976	3.40 (3H, m), 3.45 (3H, s), 3.53-3.96 (3H, m), 4.68 (1H, t, J = 13.5Hz), 7.10 (1H, s), 7.60 (2H, d, J=8.3Hz), 7.76 (2H, d, J=8.3Hz), 8.38 (1H, br s), 8.91 (1H, d, J=4.8Hz), 9.88 (1H, br s), 10.31 (1H, br s) (DMSO-d6) 3.40(3H, m), 3.46(3H, s), 3.62(1H, dd, J=12.0, 13.2Hz), 3.72(1H, m), 3.92(1H, t, J=15.5Hz), 4.68(1H, t, J=10.1Hz), 7.48(4H, t, J=10.1Hz), 7.48(4H, t, J=15.5Hz), 4.68(1H, t, J=10.1Hz), 7.48(4H, t, J=15.5Hz), 4.68(1H, t, J=10.1Hz), 7.48(4H, t, J=15.5Hz), 4.68(1H, t, J=10.1Hz), 7.48(4H,	·
1976 XA	3.40 (3H, m), 3.45 (3H, s), 3.53-3.96 (3H, m), 4.68 (1H, t, J = 13.5Hz), 7.10 (1H, s), 7.60 (2H, d, J=8.3Hz), 7.76 (2H, d, J=8.3Hz), 8.38 (1H, br s), 8.91 (1H, d, J=4.8Hz), 9.88 (1H, br s), 10.31 (1H, br s) (DMSO-d6) 3.40(3H, m), 3.46(3H, s), 3.62(1H, dd, J=12.0, 13.2Hz), 3.72(1H, m), 3.92(1H, t, J=15.5Hz), 4.68(1H, t, J=10.1Hz), 7.48(4H, t, J=10.1Hz), 7.48(4H, t, J=15.5Hz), 4.68(1H, t, J=10.1Hz), 7.48(4H, t, J=15.5Hz), 4.68(1H, t, J=10.1Hz), 7.48(4H, t, J=15.5Hz), 4.68(1H, t, J=10.1Hz), 7.48(4H,	382
1976	3.40 (3H, m), 3.45 (3H, s), 3.53-3.96 (3H, m), 4.68 (1H, t, J = 13.5Hz), 7.10 (1H, s), 7.60 (2H, d, J=8.3Hz), 7.76 (2H, d, J=8.3Hz), 8.38 (1H, br s), 8.91 (1H, d, J=4.8Hz), 9.88 (1H, br s), 10.31 (1H, br s) (DMSO-d6) 3.40(3H, m), 3.46(3H, s), 3.62(1H, dd, J=12.0, 13.2Hz), 3.72(1H, m), 3.92(1H, t, J=15.5Hz), 4.68(1H, t, J=10.1Hz), 7.18(1H, s), 7.58(2H, d, J=8.6Hz), 7.83(2H, d, J=8.6Hz), 7.8	·
1976 XA	3.40 (3H, m), 3.45 (3H, s), 3.53-3.96 (3H, m), 4.68 (1H, t, J = 13.5Hz), 7.10 (1H, s), 7.60 (2H, d, J=8.3Hz), 7.76 (2H, d, J=8.3Hz), 8.38 (1H, br s), 8.91 (1H, d, J=4.8Hz), 9.88 (1H, br s), 10.31 (1H, br s) (DMSO-d6) 3.40(3H, m), 3.46(3H, s), 3.62(1H, dd, J=12.0, 13.2Hz), 3.72(1H, m), 3.92(1H, t, J=15.5Hz), 4.68(1H, t, J=10.1Hz), 7.18(1H, s), 7.58(2H, d, J=8.6Hz), 8.57(2H, d, J=6.6Hz), 9.04(2H, d, J=8.6Hz), 8.57(2H, d, J=6.6Hz), 9.04(2H, d, J=8.6Hz), 9.0	382
1976 XA	3.40 (3H, m), 3.45 (3H, s), 3.53-3.96 (3H, m), 4.68 (1H, t, J = 13.5Hz), 7.10 (1H, s), 7.60 (2H, d, J=8.3Hz), 7.76 (2H, d, J=8.3Hz), 8.38 (1H, br s), 8.91 (1H, d, J=4.8Hz), 9.88 (1H, br s), 10.31 (1H, br s) (DMSO-d6) 3.40(3H, m), 3.46(3H, s), 3.62(1H, dd, J=12.0, 13.2Hz), 3.72(1H, m), 3.92(1H, t, J=15.5Hz), 4.68(1H, t, J=10.1Hz), 7.18(1H, s), 7.58(2H, d, J=8.6Hz), 7.83(2H, d, J=8.6Hz), 8.57(2H, d, J=6.6Hz), 9.01(2H, d, J=6.6Hz), 10.20(1H, d, J=7.8Hz), 10.76(1H, d, J=7.8Hz), 10	382
1976 XA 1977	3.40 (3H, m), 3.45 (3H, s), 3.53-3.96 (3H, m), 4.68 (1H, t, J = 13.5Hz), 7.10 (1H, s), 7.60 (2H, d, J=8.3Hz), 7.76 (2H, d, J=8.3Hz), 8.38 (1H, br s), 8.91 (1H, d, J=4.8Hz), 9.88 (1H, br s), 10.31 (1H, br s) (DMSO-d6) 3.40(3H, m), 3.46(3H, s), 3.62(1H, dd, J=12.0, 13.2Hz), 3.72(1H, m), 3.92(1H, t, J=15.5Hz), 4.68(1H, t, J=10.1Hz), 7.18(1H, s), 7.58(2H, d, J=8.6Hz), 7.83(2H, d, J=8.6Hz), 8.57(2H, d, J=6.6Hz), 9.01(2H, d, J=6.6Hz), 10.20(1H, d, J=7.8Hz), 10.76(1H, br s) (DMSO-d6)	382
XA 1977	3.40 (3H, m), 3.45 (3H, s), 3.53-3.96 (3H, m), 4.68 (1H, t, J = 13.5Hz), 7.10 (1H, s), 7.60 (2H, d, J=8.3Hz), 7.76 (2H, d, J=8.3Hz), 8.38 (1H, br s), 8.91 (1H, d, J=4.8Hz), 9.88 (1H, br s), 10.31 (1H, br s) (DMSO-d6) 3.40(3H, m), 3.46(3H, s), 3.62(1H, dd, J=12.0, 13.2Hz), 3.72(1H, m), 3.92(1H, t, J=15.5Hz), 4.68(1H, t, J=10.1Hz), 7.18(1H, s), 7.58(2H, d, J=8.6Hz), 7.83(2H, d, J=8.6Hz), 8.57(2H, d, J=6.6Hz), 9.01(2H, d, J=6.6Hz), 10.20(1H, d, J=7.8Hz), 10.76(1H, br s) (DMSO-d6) 2.98 (1H, t, J = 10.9 Hz), 3.22 (m, 3H), 2.76	382
XA 1977	3.40 (3H, m), 3.45 (3H, s), 3.53-3.96 (3H, m), 4.68 (1H, t, J = 13.5Hz), 7.10 (1H, s), 7.60 (2H, d, J=8.3Hz), 7.76 (2H, d, J=8.3Hz), 8.38 (1H, br s), 8.91 (1H, d, J=4.8Hz), 9.88 (1H, br s), 10.31 (1H, br s) (DMSO-d6) 3.40(3H, m), 3.46(3H, s), 3.62(1H, dd, J=12.0, 13.2Hz), 3.72(1H, m), 3.92(1H, t, J=15.5Hz), 4.68(1H, t, J=10.1Hz), 7.18(1H, s), 7.58(2H, d, J=8.6Hz), 7.83(2H, d, J=8.6Hz), 8.57(2H, d, J=6.6Hz), 9.01(2H, d, J=6.6Hz), 10.20(1H, d, J=7.8Hz), 10.76(1H, br s) (DMSO-d6) 2.98 (1H, t, J = 10.9 Hz), 3.22 (m, 3H), 2.76	382
XA 1977	3.40 (3H, m), 3.45 (3H, s), 3.53-3.96 (3H, m), 4.68 (1H, t, J = 13.5Hz), 7.10 (1H, s), 7.60 (2H, d, J=8.3Hz), 7.76 (2H, d, J=8.3Hz), 8.38 (1H, br s), 8.91 (1H, d, J=4.8Hz), 9.88 (1H, br s), 10.31 (1H, br s) (DMSO-d6) 3.40(3H, m), 3.46(3H, s), 3.62(1H, dd, J=12.0, 13.2Hz), 3.72(1H, m), 3.92(1H, t, J=15.5Hz), 4.68(1H, t, J=10.1Hz), 7.18(1H, s), 7.58(2H, d, J=8.6Hz), 7.83(2H, d, J=8.6Hz), 8.57(2H, d, J=6.6Hz), 9.01(2H, d, J=6.6Hz), 10.20(1H, d, J=7.8Hz), 10.76(1H, br s) (DMSO-d6) 2.98 (1H, t, J = 10.9 Hz), 3.22 (m, 3H), 3.56 (3H, s), 3.60 (2H, m), 4.03 (1H, d, J=8.7Hz)	382
XA 1977	3.40 (3H, m), 3.45 (3H, s), 3.53-3.96 (3H, m), 4.68 (1H, t, J = 13.5Hz), 7.10 (1H, s), 7.60 (2H, d, J=8.3Hz), 7.76 (2H, d, J=8.3Hz), 8.38 (1H, br s), 8.91 (1H, d, J=4.8Hz), 9.88 (1H, br s), 10.31 (1H, br s) (DMSO-d6) 3.40(3H, m), 3.46(3H, s), 3.62(1H, dd, J=12.0, 13.2Hz), 3.72(1H, m), 3.92(1H, t, J=15.5Hz), 4.68(1H, t, J=10.1Hz), 7.18(1H, s), 7.58(2H, d, J=8.6Hz), 7.83(2H, d, J=8.6Hz), 10.20(1H, d, J=7.8Hz), 10.76(1H, br s) (DMSO-d6) 2.98 (1H, t, J = 10.9 Hz), 3.22 (m, 3H), 3.56 (3H, s), 3.60 (2H, m), 4.03 (1H, d, J=8.7 Hz), 6.68 (1H, s), 7.28 (1H, d, J=8.2 Hz), 7.42	382
XA 1977 XA 1978	3.40 (3H, m), 3.45 (3H, s), 3.53-3.96 (3H, m), 4.68 (1H, t, J = 13.5Hz), 7.10 (1H, s), 7.60 (2H, d, J=8.3Hz), 7.76 (2H, d, J=8.3Hz), 8.38 (1H, br s), 8.91 (1H, d, J=4.8Hz), 9.88 (1H, br s), 10.31 (1H, br s) (DMSO-d6) 3.40(3H, m), 3.46(3H, s), 3.62(1H, dd, J=12.0, 13.2Hz), 3.72(1H, m), 3.92(1H, t, J=15.5Hz), 4.68(1H, t, J=10.1Hz), 7.18(1H, s), 7.58(2H, d, J=8.6Hz), 7.83(2H, d, J=8.6Hz), 8.57(2H, d, J=6.6Hz), 9.01(2H, d, J=6.6Hz), 10.20(1H, d, J=7.8Hz), 10.76(1H, br s) (DMSO-d6) 2.98 (1H, t, J = 10.9 Hz), 3.22 (m, 3H), 3.56 (3H, s), 3.60 (2H, m), 4.03 (1H, d, J = 8.7 Hz), 6.68 (1H, d, J = 8.2 Hz), 7.61 (1H, d	382
XA 1977 XA 1978	3.40 (3H, m), 3.45 (3H, s), 3.53-3.96 (3H, m), 4.68 (1H, t, J = 13.5Hz), 7.10 (1H, s), 7.60 (2H, d, J=8.3Hz), 7.76 (2H, d, J=8.3Hz), 8.38 (1H, br s), 8.91 (1H, d, J=4.8Hz), 9.88 (1H, br s), 10.31 (1H, br s) (DMSO-d6) 3.40(3H, m), 3.46(3H, s), 3.62(1H, dd, J=12.0, 13.2Hz), 3.72(1H, m), 3.92(1H, t, J=15.5Hz), 4.68(1H, t, J=10.1Hz), 7.18(1H, s), 7.58(2H, d, J=8.6Hz), 7.83(2H, d, J=8.6Hz), 8.57(2H, d, J=6.6Hz), 9.01(2H, d, J=6.6Hz), 10.20(1H, d, J=7.8Hz), 10.76(1H, br s) (DMSO-d6) 2.98 (1H, t, J = 10.9 Hz), 3.22 (m, 3H), 3.56 (3H, s), 3.60 (2H, m), 4.03 (1H, d, J=8.7Hz)	382

	12 24 /411 44 1- 40 0 0 0 1	
XA 1979	3.31 (1H, dd, J = 13.8, 8.9 Hz), 3.46 (3H, s), 3.85 (1H, dd, J = 13.8, 3.6 Hz), 4.10 (1H, d, J = 17.7 Hz), 4.19 (1H, d, J = 17.7 Hz), 4.91 (1H, dd, J = 8.9, 3.6 Hz), 6.11 (1H, s), 6.74 (1H, s), 7.32 (2H, d, J = 8.4 Hz), 7.42 (2H, d, J = 8.4 Hz), 7.79 (2H, dd, J = 4.8, 1.5 Hz), 8.74 (2H, dd, J = 4.8, 1.5 Hz) (CDCI3)	396
XA 1980	1.97 (4H, m), 3.26 (4H, m), 3.38 (2H, m), 3.45 (3H, s), 3.60 (2H, m), 3.80 (1H, d, J = 13.8 Hz), 3.92 (1H, d, J = 14.1 Hz), 4.48 (1H, t, J = 10.4 Hz), 6.65 (2H, d, J = 8.7 Hz), 7.16 (1H, s), 7.54 (2H, d, J = 8.7 Hz), 8.57 (2H, d, J = 6.6 Hz), 9.00 (2H, d, J = 6.6 Hz), 9.83 (1H, d, J = 9.3 Hz), 10.32 (1H, br s) (DMSO-d6)	417
XA 1981	3.21 (4H, m), 3.40 (2H, m), 3.46 (3H, s), 3.65 (2H, m), 3.78 (4H, m), 3.91 (2H, t, J = 13.7 Hz), 4.55 (1H, t, J = 10.1 Hz), 7.14 (2H, d, J = 8.7 Hz), 7.20 (1H, s), 7.64 (2H, d, J = 8.7 Hz), 8.60 (2H, d, J = 6.6 Hz), 9.02 (2H, d, J = 6.6 Hz), 9.93 (1H, d, J = 9.0 Hz), 10.47 (1H, br s) (DMSO-d6)	433
XA 1982	2.80 (3H, d, J = 4.5 Hz), 3.15 (4H, m), 3.44 (4H, m), 3.45 (3H, s), 3.60 (2H, m), 3.82 (1H, d, J = 13.5 Hz), 3.90 (3H, m), 4.54 (1H, t, J = 10.5), 7.10 (2H, d, J = 8.7 Hz), 7.17 (1H, s), 7.64 (2H, d, J = 8.7 Hz), 8.54 (2H, d, J = 6.3 Hz), 8.99 (2H, d, J = 6.3 Hz), 9.94 (1H, d, J = 8.7 Hz), 10.47 (1H, br s), 11.26 (1H, br s) (DMSO-d6)	446
XA 1983	1.27(3H, t, J=6.6 Hz), 3.46-4.14(8H, m), 4.70(1H, m), 7.11(1H, s), 7.60(2H, d, J=8.4 Hz), 7.76(2H, d, J=8.4 Hz), 8.32(2H, d, J=6 Hz), 8.89(2H, d, J=6.0 Hz), 9.87(1H, m), 10.23(1H, m), (DMSO-d6)	396
XA 1984	1.27(6H, dd, J=6.9, 6.9 Hz), 3.37-4.36(6H, m), 4.66-4.79(2H, m), 7.03(1H, s), 7.62(2H, d, J=8.7 Hz), 7.78(2H, d, J=8.7 Hz), 8.33(2H, d, J=6 Hz), 8.90(2H, d, J=6.0 Hz), 9.93(1H, m), 10.25(1H, m), (DMSO-d6)	410
XA 1985	1.40(3H, d, J=6.3 Hz), 3.44-4.04(5H, m), 3.48(3H, s), 4.69(1H, m), 7.08(1H, s), 7.60(2H, d, J=8.4 Hz), 7.79(2H, d, J=8.4 Hz), 8.33(2H, d, J=6.3 Hz), 8.90(2H, d, J=6.3 Hz), 9.83(1H, m), 10.00(1H, m), (DMSO-d6)	396

XA 1986	Hz), 7.34(2H, d, J=7.4 Hz), 8.41(2H, d, J=6.0 Hz), 8.93(2H, d, J=6.0 Hz), 9.88(1H, m), 10.05(1H, m), (DMSO-d6)	410
XA 1987	9.65(1H, m), 10.23(1H, m), (DMSO-d6)	396
XA 1988	2.34 (1H, m), 2.42 (1H, m), 2.80 (3H, d, J = 5.6 Hz), 2.81 (3H, d, J = 5.6 Hz), 3.28 (1H, q, J = 8.8 Hz), 3.43 (2H, m), 3.45 (3H, s), 3.57 (5H, m), 3.80 (1H, d, J = 11.4 Hz), 3.96 (2H, m), 4.50 (1H, t, J = 10.4 Hz), 6.69 (2H, d, J = 8.4 Hz), 7.14 (1H, s), 7.55 (2H, d, J = 8.4 Hz), 8.47 (2H, d, J = 5.6 Hz), 8.96 (2H, d, J = 5.6 Hz), 9.75 (1H, d, J = 8.0 Hz), 10.16 (1H, br s), 11.40 (1H, br s) (DMSO-d6)	460
XA 1989	1.65 (2H, br s), 1.91 (4H, br s), 3.46 (9H, s), 3.70 (2H, m), 3.92 (2H, t, J = 16.6 Hz), 4.66 (1H, br s), 7.16 (1H, s), 7.85 (4H, br s), 8.50 (2H, d, J = 6.4 Hz), 8.97 (2H, d, J = 6.4 Hz), 10.01 (1H, br s), 10.59 (1H, br s) (DMSO-d6)	431
XA 1990	2.32 (1H, m), 2.42 (1H, m), 2.79 (3H, d, J = 5.2 Hz), 2.81 (3H, d, J = 5.2 Hz), 3.27 (1H, m), 3.39 (2H, m), 3.45 (3H, s), 3.59 (5H, m), 3.79 (1H, d, J = 13.3 Hz), 3.95 (2H, m), 4.50 (1H, t, J = 11.6 Hz), 6.69 (2H, d, J = 8.4 Hz), 7.16 (1H, s), 7.56 (2H, d, J = 8.4 Hz), 8.50 (2H, s), 8.98 (2H, d, J = 5.6 Hz), 9.78 (1H, br s), 10.19 (1H, br s), 11.44 (1H, br s) (DMSO-d6)	460
XA 1991	3.47 (3H, s), 3.61 (3H, m), 3.81 (3H, s), 4.02 (3H, m), 4.69 (1H, t, J = 10.6 Hz), 7.05 (2H, d, J = 8.8 Hz), 7.10 (1H, s), 7.67 (2H, d, J = 8.8 Hz), 7.77 (4H, s), 8.38 (2H, br s), 8.91 (2H, d, J = 5.2 Hz), 9.90 (1H, br s), 10.28 (1H, br s) (DMSO-d6)	454
XA 1992	1.26(3H, t, J=6.9 Hz), 1.41(3H, d, J=6.3 Hz), 3.43-4.06(7H, m), 4.74(1H, m), 7.09(1H, s), 7.58(2H, d, J=8.4 Hz), 7.84(2H, d, J=8.4 Hz), 8.32(2H, d, J=6.6 Hz), 8.90(2H, d, J=6.6 Hz), 9.90(1H, m), 10.03(1H, m), (DMSO-d6)	410
XA 1993	1.41(3H, t, J=6.3 Hz), 1.55(6H, dd, J=6.6, 6.6 Hz), 3.49-3.73(5H, m), 4.64(1H, m), 4.78(1H, m), 6.99(1H, s), 7.58(2H, d, J=8.7 Hz), 7.81(2H, d, J=8.7 Hz), 8.28(2H, d, J=6.3 Hz), 8.87(2H, d, J=6.3 Hz), 9.91(2H, m)(DMSO-d6)	424

	14.27/2H + 1=6.0 H=> 4.55/2	
XA 1994	1.27(3H, t, J=6.9 Hz), 1.55(3H, s), 1.60(3H, s), 3.42-4.14(6H, m), 5.04(1H, m), 7.13(1H, s), 7.60(2H, d, J=8.4 Hz), 7.91(2H, d, J=8.4 Hz), 8.32(2H, d, J=6.3 Hz), 8.89(2H, d, J=6.3 Hz), 9.80-9.84(2H, m)(DMSO-d6)	
XA 1995	1.52(3H, d, J=6.6 Hz), 1.58(6H, s), 1.59(3H, d, J=6.6 Hz), 3.40-3.68(4H, m), 4.75(1H, m), 5.09(1H, m), 7.03(1H, s), 7.60(2H, d, J=8.4 Hz), 7.93(2H, d, J=8.4 Hz), 8.33(2H, d, J=6.0 Hz), 8.89(2H, d, J=6.0 Hz), 9.89(2H, m)(DMSO-d6)	
XA 1996	1.29 (3H, t, J = 6.8 Hz), 3.47 (2H, br s), 3.66 (3H, m), 3.81 (3H, s), 3.83 (1H, m), 4.04 (2H, m), 4.71 (1H, d, J = 10.6 Hz), 7.05 (2H, d, J = 8.8 Hz), 7.12 (1H, s), 7.67 (2H, d, J = 8.8 Hz), 7.75 (2H, d, J = 8.4 Hz), 7.79 (2H, d, J = 8.4 Hz), 8.36 (2H, d, J = 6.4 Hz), 8.91 (2H, d, J = 6.4 Hz), 9.92 (1H, d, J = 8.8 Hz), 10.29 (1H, br s) (DMSO-d6)	
XA 1997	1.56 (3H, d, J = 6.4 Hz), 1.58 (3H, d, J = 6.4 Hz), 3.47 (2H, br s), 3.60 (1H, m), 3.77 (2H, m), 3.81 (3H, s), 4.72 (3H, m), 7.05 (2H, d, J = 8.8 Hz), 7.06 (1H, s), 7.68 (2H, d, J = 8.8 Hz), 7.76 (2H, d, J = 8.4 Hz), 7.80 (2H, d, J = 8.4 Hz), 8.42 (2H, d, J = 6.4 Hz), 8.94 (2H, d, J = 6.4 Hz), 10.02 (1H, d, J = 9.6 Hz), 10.39 (1H, br s) (DMSO-d6)	482
XA 1998	1.24 (1H, m), 1.39 (4H, m), 1.72 (1H, m), 1.79 (4H, m), 2.55 (1H, m), 3.45 (3H, s), 4.00-3.45 (6H, m), 4.61 (1H, t, J = 11.2 Hz), 7.09 (1H, s), 7.35 (2H, d, J = 8.4 Hz), 7.62 (2H, d, J = 8.4 Hz), 8.37 (2H, d, J = 4.0 Hz), 8.90 (2H, d, J = 4.0 Hz), 9.75 (1H, d, J = 9.6 Hz), 10.17 (1H, br s), (DMSO-d6)	430
XA 1999	1.04 (1H, m), 1.17 (2H, m), 1.43 (2H, m), 1.60 (1H, m), 1.79 (4H, m), 2.96 (3H, br s), 3.45 (3H, s), 4.18-3.44 (6H, m), 4.62 (1H, br s), 7.13 (1H, s), 7.75 (4H, br s), 8.46 (1H, br s), 8.95 (1H, br s), 9.87 (1H, br s), 10.40 (1H, br s) (DMSO-d6)	459
XA 2000	1.40(3H, d, J=6.6 Hz), 3.44-4.04(5H, m), 3.48(3H, s), 4.72(1H, m), 7.05(1H, s), 7.61(2H, d, J=8.4 Hz), 7.78(2H, d, J=8.4 Hz), 8.29(2H, d, J=6.0 Hz), 8.90(2H, d, J=6.0 Hz), 9.78-10.00(2H, m), (DMSO-d6)	396

1.26(37), (1, 36-9 Hz), 1,41(3H, d, J=6.0 Hz), 7.58(2H, d, J=8.4 Hz), 7.58(2H, d, J=8.4 Hz), 7.58(2H, d, J=6.3 Hz), 8.88(2H, d, J=6.3 Hz), 8.29(2H, d, J=6.3 Hz), 8.88(2H, d, J=6.3 Hz), 9.84-10.00(2H, m), (DMSO-d6) 1.41(3H, t), J=6.0 Hz), 1.56(6H, dd, J=6.6, 6.6 Hz), 3.49-3.73(5H, m), 4.62(1H, m), 4.78(1H, m), 7.00(1H, s), 7.59(2H, d, J=8.4 Hz), 8.81(2H, d, J=8.4 Hz), 8.30(2H, d, J=6.3 Hz), 8.88(2H, d, J=6.3 Hz), 9.91(2H, m)(DMSO-d6) 3.03(4H, td, J=4.6Hz), 3.26(4H, t, J=4.5Hz), 3.48(3H, s), 6.65(1H, s), 7.10(2H, m), 7.20-7.45(5H, m), 7.65(2H, d, J=8.5Hz), 7.79(2H, d, J=6.3Hz), 8.71(2H, d, J=1.5, 4.8Hz)(CDC13), 2.93(1H, m), 3.20(2H, m), 3.30(3H, s), 3.36(1H, d, J=12.9 Hz), 3.46(1H, t, J=12.0 Hz), 3.73(4H, m), 7.03(1H, s), 7.33(2H, m), 7.42(3H, m), 8.16(2H, d, J=6.4 Hz), 8.86(2H, d, J=6.4 Hz), 9.61(1H, d, J=10.0 Hz), 9.95(1H, d, J=8.0 Hz), 8.00(2H, br.s), 8.73(2H, m), 8.02(2H, d, J=6.4 Hz), 8.60(1H, m), 3.19(1H, m), 3.30(3H, s), 3.41(3H, s), 3.69(1H, m), 3.00(2H, d, J=6.4 Hz), 8.96(1H, m), 3.99(2H, d, J=8.0 Hz), 7.49(2H, d, J=8.0 Hz), 7.39(2H, d, J=8.0 Hz), 7.49(2H, d, J=8.0 Hz), 8.00(2H, br.s), 8.77(2H, br.s), 9.24(1H, s), 9.54(1H, s) (DMSO-d6) 3.39(2H, m), 3.46(3H, s), 3.56(2H, m), 3.85(1H, d, J=13.2 Hz), 3.93(1H, d, J=13.6 Hz), 4.55(1H, t, J=10.4 Hz), 6.94(1H, br.s), 7.13(1H, br.s), 10.10(1H, br.s) (DMSO-d6) 1.39(1H, m), 1.80(8H, m), 2.18(2H, d, J=11.2 Hz), 2.76(2H, t, J=11.4 Hz), 3.90(2H, m), 3.33(1H, m), 3.40(3H, m), 3.45(3H, s), 3.56(2H, m), 3.93(3H, m), 4.53(1H, t, J=10.4 Hz), 7.09(2H, d, J=8.8 Hz), 7.11(1H, s), 7.56(2H, d, J=8.8 Hz), 7.77(2H, d, J=1.2, 10.2Hz), 6.81(1H, s), 7.77	1 26/21 4 1 0 0 11	
XA 2002 4.78(1H, m), 7.00(1H, s), 7.59(2H, d, J=8.4 Hz), 7.81(2H, d, J=8.4 Hz), 8.88(2H, d, J=6.3 Hz), 9.91(2H, m)(DMSO-d6) 3.03(4H, td, J=4.6Hz), 3.26(4H, t, J=4.5Hz), 3.48(3H, s), 6.65(1H, s), 7.10(2H, m), 7.20-7.45(5H, m), 7.65(2H, d, J=8.5Hz), 7.79(2H, d, J=6.3Hz), 8.71(2H, d, J=1.5, 4.8Hz)(CDCl3), XA 2003 2.93 (1H, m), 3.20 (2H, m), 3.30 (3H, s), 3.36 (1H, d, J=12.8 Hz), 3.46 (1H, t, J=12.0 Hz), 3.73 (4H, m), 7.03 (1H, s), 7.33 (2H, m), 7.42 (3H, m), 8.16 (2H, d, J=6.4 Hz), 8.86 (2H, d, J=6.4 Hz), 9.61 (1H, d, J=10.0 Hz), 9.95 (1H, d, J=8.4 Hz) (DMSO-d6) 2.93 (1H, dd, J=14.8, 8.4 Hz), 3.07 (1H, m), 3.19 (1H, m), 3.30 (3H, s), 3.41 (3H, s), 3.69 (1H, m), 3.80 (2H, d, J=14.0 Hz), 6.96 (1H, br s), 7.39 (2H, d, J=14.0 Hz), 6.96 (1H, br s), 7.39 (2H, d, J=8.0 Hz), 7.49 (2H, d, J=8.0 Hz), 8.00 (2H, br s), 8.77 (2H, br s), 9.24 (1H, s), 9.54 (1H, s) (DMSO-d6) 3.39 (2H, m), 3.46 (3H, s), 3.56 (2H, m), 3.85 (1H, d, J=13.2 Hz), 3.93 (1H, d, J=13.6 Hz), 4.55 (1H, t, J=10.4 Hz), 6.94 (1H, br s), 7.13 (1H, s), 7.14 (4H, m), 7.30 (2H, m), 7.59 (2H, d, J=8.0 Hz), 8.45 (2H, s), 8.95 (2H, s), 9.73 (1H, br s), 10.10 (1H, br s) (DMSO-d6) 3.39 (1H, m), 1.80 (8H, m), 2.18 (2H, d, J=11.2 Hz), 2.76 (2H, t, J=11.4 Hz), 3.90 (2H, m), 3.33 (1H, m), 3.40 (3H, m), 3.45 (3H, s), 3.58 (2H, d, J=8.8 Hz), 7.11 (1H, s), 7.56 (2H, d, J=8.8 Hz), 8.40 (2H, d, J=6.0 Hz), 8.92 (2H, d, J=6.0 Hz), 9.75 (1H, d, J=8.8 Hz), 10.14 (1H, br s), 10.39 (1H, br s) (DMSO-d6) 2.82-2.90(1H, m), 3.01-3.05(4H, m), 3.22 (3H, s), 3.44(3H, s), 3.58-3.66 (2H, m), 4.08 (1H, dd, J=1.2, 10.2Hz), 6.81 (1H, s), 7.77 (2H, d, J=7.2Hz), 7.92-7.09 (2H, d), 3.22 (3H, s), 3.44 (3H, s), 3.58-3.66 (2H, m), 4.08 (1H, dd, J=1.2, 10.2Hz), 6.81 (1H, s), 7.77 (2H, d, J=7.2Hz), 7.92-7.09 (2H, d), 3.22 (3H, s), 3.44 (3H, s), 3.58-3.66 (2H, m), 4.08 (1H, dd, J=1.2, 10.2Hz), 6.81 (1H, s), 7.77 (2H, dd, J=7.2Hz), 7.92-7.09 (2H, dd, J=6.0Hz), 7.77 (2H, dd, J=7.2Hz), 7.92-7.09 (2H, dd, J=6.0Hz), 7.77 (2H, dd, J=7.2Hz), 7.92-7.09 (2H, dd, J=6.0Hz), 7.77 (2H, dd, J=7.2Hz), 7.92-7.0	8.29(2H, d, J=6.3 Hz), 8.88(2H, d, J=8.4 Hz),	1
XA 2003 7.20-7.45(5H, m), 7.65(2H, d, J=8.5Hz), 7.79(2H, d, J=6.3Hz), 8.71(2H, d, J=1.5, 4.8Hz)(CDCl3), 2.93 (1H, m), 3.20 (2H, m), 3.30 (3H, s), 3.36 (1H, d, J = 12.8 Hz), 3.46 (1H, t, J = 12.0 Hz), 3.73 (4H, m), 7.03 (1H, s), 7.33 (2H, m), 7.42 (3H, m), 8.16 (2H, d, J = 6.4 Hz), 8.86 (2H, d, J = 6.4 Hz), 9.61 (1H, d, J = 10.0 Hz), 9.95 (1H, d, J = 8.4 Hz) (DMSO-d6) 2.93 (1H, dd, J = 14.8, 8.4 Hz), 3.07 (1H, m), 3.19 (1H, m), 3.33 (3H, s), 3.41 (3H, s), 3.69 (1H, m), 3.80 (2H, d, J = 14.0 Hz), 6.96 (1H, br s), 7.39 (2H, d, J = 8.0 Hz), 7.49 (2H, d, J = 8.0 Hz), 8.00 (2H, br s), 8.77 (2H, br s), 9.24 (1H, s), 9.54 (1H, s) (DMSO-d6) 3.39 (2H, m), 3.46 (3H, s), 3.56 (2H, m), 3.85 (1H, d, J = 13.6 Hz), 4.55 (1H, t, J = 10.4 Hz), 6.94 (1H, br s), 7.13 (1H, s), 7.14 (4H, m), 7.30 (2H, m), 7.59 (2H, d, J = 8.0 Hz), 8.45 (2H, s), 8.95 (2H, s), 9.73 (1H, br s), 10.10 (1H, br s) (DMSO-d6) 1.39 (1H, m), 1.80 (8H, m), 2.18 (2H, d, J = 11.2 Hz), 2.76 (2H, t, J = 11.4 Hz), 3.90 (2H, m), 3.33 (1H, m), 3.33 (1H, m), 3.40 (3H, m), 3.45 (3H, s), 3.58 (2H, m), 3.82 (1H, d, J = 13.3 Hz), 3.93 (3H, m), 4.53 (1H, t, J = 10.4 Hz), 7.09 (2H, d, J = 8.8 Hz), 7.11 (1H, s), 7.56 (2H, d, J = 8.8 Hz), 7.11 (1H, s), 7.56 (2H, d, J = 8.8 Hz), 10.14 (1H, br s), 10.39 (1H, br s) (DMSO-d6) 2.82-2.90(1H, m), 3.01-3.05(4H, m), 3.22(3H, s), 3.44(3H, s), 3.58-3.66(2H, m), 4.08(1H, dd, J = 1.2, 10.2Hz), 6.81(1H, s), 7.77(2H, d, J = 7.2Hz), 7.92-7.08(4H, s), 7.77(2H,	4.78(1H, m), 7.00(1H, s), 7.59(2H, d, J=8.4 Hz), 7.81(2H, d, J=8.4 Hz), 8.30(2H, d, J=6.3 Hz), 8.88(2H, d, J=6.3 Hz), 9.91(2H	
XA 2004 (111, d, J = 12.6 Hz), 3.46 (1H, t, J = 12.0 Hz), 3.73 (4H, m), 7.03 (1H, s), 7.33 (2H, m), 7.42 (3H, m), 8.16 (2H, d, J = 6.4 Hz), 8.86 (2H, d, J = 6.4 Hz), 9.61 (1H, d, J = 10.0 Hz), 9.95 (1H, d, J = 8.4 Hz) (DMSO-d6) 2.93 (1H, dd, J = 14.8, 8.4 Hz), 3.07 (1H, m), 3.19 (1H, m), 3.33 (3H, s), 3.41 (3H, s), 3.69 (1H, m), 3.80 (2H, d, J = 14.0 Hz), 6.96 (1H, br s), 7.39 (2H, d, J = 8.0 Hz), 7.49 (2H, d, J = 8.0 Hz), 8.00 (2H, br s), 8.77 (2H, br s), 9.24 (1H, s), 9.54 (1H, s) (DMSO-d6) XA 2006 3.39 (2H, m), 3.46 (3H, s), 3.56 (2H, m), 3.85 (1H, d, J = 13.2 Hz), 3.93 (1H, d, J = 13.6 Hz), 4.55 (1H, t, J = 10.4 Hz), 6.94 (1H, br s), 7.13 (1H, br s), 10.10 (1H, br s) (DMSO-d6) XA 2006 1.39 (1H, m), 1.80 (8H, m), 2.18 (2H, d, J = 11.2 Hz), 2.76 (2H, t, J = 11.4 Hz), 3.90 (2H, m), 3.33 (1H, m), 3.40 (3H, m), 3.45 (3H, s), 3.58 (2H, m), 3.82 (1H, d, J = 13.3 Hz), 3.93 (3H, m), 4.53 (1H, t, J = 10.4 Hz), 7.09 (2H, d, J = 8.8 Hz), 7.11 (1H, s), 7.56 (2H, d, J = 8.8 Hz), 8.40 (2H, d, J = 6.0 Hz), 8.92 (2H, d, J = 6.0 Hz), 9.75 (1H, d, J = 8.8 Hz), 10.14 (1H, br s), 10.39 (1H, br s) (DMSO-d6) 2.82-2.90(1H, m), 3.01-3.05(4H, m), 3.22(3H, s), 3.44(3H, s), 3.58-3.66(2H, m), 4.08(1H, dd, J=1.2, 10.2 Hz), 6.81(1H, s), 7.77(2H; d. J=7.2 Hz), 7.92-7.09(4H, s), 4.08(1H, dd,	7.20-7.45(5H, m), 7.65(2H, d, J=8.5Hz), 7.79(2H, d, J=6.3Hz), 8.71(2H, d, J=1.5, 4.8Hz)(CDCI3),	425
XA 2005 (1H, m), 3.80 (2H, d, J = 14.0 Hz), 6.96 (1H, br s), 7.39 (2H, d, J = 8.0 Hz), 7.49 (2H, d, J = 8.0 Hz), 8.00 (2H, br s), 8.77 (2H, br s), 9.24 (1H, s), 9.54 (1H, s) (DMSO-d6) XA 2006 (1H, d, J = 13.2 Hz), 3.93 (1H, d, J = 13.6 Hz), 4.55 (1H, t, J = 10.4 Hz), 6.94 (1H, br s), 7.13 (1H, s), 7.14 (4H, m), 7.30 (2H, m), 7.59 (2H, d, J = 8.0 Hz), 8.45 (2H, s), 8.95 (2H, s), 9.73 (1H, br s), 10.10 (1H, br s) (DMSO-d6) XA 2007 (1.39 (1H, m), 1.80 (8H, m), 2.18 (2H, d, J = 11.2 Hz), 2.76 (2H, t, J = 11.4 Hz), 3.90 (2H, m), 3.33 (1H, m), 3.40 (3H, m), 3.45 (3H, s), 3.58 (2H, m), 3.82 (1H, d, J = 13.3 Hz), 3.93 (3H, m), 4.53 (1H, t, J = 10.4 Hz), 7.09 (2H, d, J = 8.8 Hz), 7.11 (1H, s), 7.56 (2H, d, J = 8.8 Hz), 10.14 (1H, br s), 10.39 (1H, br s) (DMSO-d6) XA 2007 (2.82-2.90(1H, m), 3.01-3.05(4H, m), 3.22(3H, s), 3.44(3H, s), 3.58-3.66(2H, m), 4.08(1H, dd, J = 1.2, 10.2Hz), 6.81(1H, s), 7.77(2H; d, J = 7.27.7 99(4H, s), 7.77(2H; d, J = 7.27.7 99(4H, s), 7.77(2H; d, J = 7.247), 7.92-7 99(4H, s), 7.92-7 99(4H, s), 7.77(2H; d, J = 7.247), 7.92-7 99(4H, s), 7.92-	(11, d, 3 - 12.6 Hz), 3.46 (1H, f, J = 12.0 Hz), 3.73 (4H, m), 7.03 (1H, s), 7.33 (2H, m), 7.42 (3H, m), 8.16 (2H, d, J = 6.4 Hz), 8.86 (2H, d, J = 6.4 Hz), 9.61 (1H, d, J = 10.0 Hz), 9.95 (1H, d, J = 8.4 Hz) (DMSO-d6)	362
XA 2006 (11, t, J = 10.4 Hz), 6.94 (1H, br s), 7.13 (1H, s), 7.14 (4H, m), 7.30 (2H, m), 7.59 (2H, d, J = 8.0 Hz), 8.45 (2H, s), 8.95 (2H, s), 9.73 (1H, br s), 10.10 (1H, br s) (DMSO-d6) 1.39 (1H, m), 1.80 (8H, m), 2.18 (2H, d, J = 11.2 Hz), 2.76 (2H, t, J = 11.4 Hz), 3.90 (2H, m), 3.33 (1H, m), 3.40 (3H, m), 3.45 (3H, s), 3.58 (2H, m), 3.82 (1H, d, J = 13.3 Hz), 3.93 (3H, m), 4.53 (1H, t, J = 10.4 Hz), 7.09 (2H, d, J = 8.8 Hz), 7.11 (1H, s), 7.56 (2H, d, J = 8.8 Hz), 8.40 (2H, d, J = 6.0 Hz), 8.92 (2H, d, J = 6.0 Hz), 9.75 (1H, d, J = 8.8 Hz), 10.14 (1H, br s), 10.39 (1H, br s) (DMSO-d6) 2.82-2.90(1H, m), 3.01-3.05(4H, m), 3.22(3H, s), 3.44(3H, s), 3.58-3.66(2H, m), 4.08(1H, dd, J=1.2, 10.2Hz), 6.81(1H, s), 7.77(2H; d. J=7.2Hz), 7.92-7.08(4H, s), 4.06	(1H, m), 3.80 (2H, d, J = 14.0 Hz), 6.96 (1H, br s), 7.39 (2H, d, J = 8.0 Hz), 7.49 (2H, d, J = 8.0 Hz), 8.00 (2H, br s), 8.77 (2H, br s), 9.24 (1H, s), 9.54 (1H, s) (DMSO-d6)	396
XA 2007 XA 2007 XA 2007 XA 2007 XA 2008 XA	(11, d, d = 13.2 Hz), 3.93 (1H, d, J = 13.6 Hz), 4.55 (1H, t, J = 10.4 Hz), 6.94 (1H, br s), 7.13 (1H, s), 7.14 (4H, m), 7.30 (2H, m), 7.59 (2H, d, J = 8.0 Hz), 8.45 (2H, s), 8.95 (2H, s), 9.73 (1H, br s), 10.10 (1H, br s) (DMSO-d6)	508
XA (3H, s), 3.44(3H, s), 3.58-3.66(2H, m), 4.08(1H, dd, J=1.2, 10.2Hz), 6.81(1H, s), 7.77(2H, d. J=7.2Hz), 7.92-7.98(4H, s), 420	m), 3.33 (1H, m), 3.40 (3H, m), 3.45 (3H, s), 3.58 (2H, m), 3.82 (1H, d, J = 13.3 Hz), 3.93 (3H, m), 4.53 (1H, t, J = 10.4 Hz), 7.09 (2H, d, J = 8.8 Hz), 7.11 (1H, s), 7.56 (2H, d, J = 8.8 Hz), 8.40 (2H, d, J = 6.0 Hz), 8.92 (2H, d, J = 6.0 Hz), 9.75 (1H, d, J = 8.8 Hz), 10.14 (1H, br s), 10.39 (1H, br s) (DMSO-d6)	514
	4.08(1H, dd, J=1.2, 10.2Hz), 6.81(1H, s), 7.77(2H, d. J=7.2Hz), 7.92-7.98(4H, s)	426

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XA 2009	1.21(3H, d, J=6.6 Hz), 3.17-3.45(4H, m), 3.52(3H, s), 4.02(1H, m), 4.69(1H, m), 7.20(1H, s), 7.54(2H, d, J=8.4 Hz), 7.70(2H d, J=8.4 Hz), 8.26(2H, d, J=6.3 Hz), 8.88(2H d, J=6.3 Hz), 9.90(1H, m), 10.16(1H, m), (DMSO-d6)	396
XA 2010	1.21(3H, d, J=6.0 Hz), 3.17-3.45(4H, m), 3.53(3H, s), 4.02(1H, m), 4.70(1H, m), 7.24(1H, s), 7.54(2H, d, J=8.7 Hz), 7.73(2H, d, J=8.7 Hz), 8.33(2H, d, J=5.7 Hz), 8.93(2H, d, J=5.7 Hz), 10.04(1H, m), 1037(1H, m), (DMSO-d6)	396
XA 2011	3.02 (1H, t, J = 11.9 Hz), 3.17 (6H, m), 3.55 (3H, s), 3.63 (2H, m), 3.86 (4H, m), 3.96 (1H, d, J = 10.2 Hz), 6.66 (1H, s), 6.92 (2H, d, J = 8.4 Hz), 7.35 (2H, d, J = 8.4 Hz), 7.80 (2H, d, J = 5.1 Hz), 8.70 (2H, d, J = 5.1 Hz) (CDCl3)	422
XA 2012	2.31 (3.6H, s), 3.16 (4H, t, J = 4.8 Hz), 3.44 (3H, s), 3.45 (4H, m), 3.75 (4H, t, J = 4.8 Hz), 3.86 (1H, d, J = 14.0 Hz), 3.92 (1H, d, J = 12.4 Hz), 4.56 (1H, d, J = 10.4 Hz), 6.95 (1H, s), 7.06 (2H, d, J = 8.8 Hz), 7.43 (2H, d, J = 8.8 Hz), 8.06 (2H, d, J = 6.0 Hz), 8.75 (2H, d, J = 6.0 Hz), 9.03 (1H, s), 9.33 (1H,d, J = 10.0 Hz) (DMSO-d6)	433
XA 2013	1.82 (4H, m), 1.97 (2H, m), 2.12 (2H, m), 2.77 (2H, t, J = 11.6 Hz), 3.01 (2H, m), 3.27 (1H, m), 3.40 (2H, m), 3.45 (3H, s), 3.49 (2H, m), 3.57 (1H, m), 3.63 (1H, m), 3.84 (1H, d, J = 13.6 Hz), 3.92 (3H, d, J = 12.8 Hz), 4.53 (1H, t, J = 11.2 Hz), 7.12 (2H, d, J = 8.4 Hz), 7.14 (1H, s), 7.58 (2H, d, J = 8.9 Hz), 8.49 (2H, d, J = 5.2 Hz), 8.97 (2H, d, J = 5.2 Hz), 9.82 (1H, br s), 10.24 (1H, br s), 11.12 (1H, br s) (DMSO-d6)	500
XA 2014	1.75(2H, m), 2.14(2H, m), 2.72(6H, d, J=4.5 Hz), 2.74-2.80(3H, m), 3.30-3.95(8H, m), 3.45(3H, s), 4.54(1H, m), 7.10(2H, d, J=9.0 Hz), 7.15(1H, s), 7.60(2H, d, J=9.0 Hz), 8.51(2H, d, J=6.6 Hz), 8.98(2H, d, J=6.6 Hz), 9.86(1H, m), 10.32(1H, m), 10.93(1H, m), (DMSO-d6)	474
2015	1.68(2H, m), 2.09(2H, m), 3.16-3.90(10H, m), 3.45(3H, s), 4.60(1H, m), 7.13(1H, s), 7.45-7.71(4H, m), 8.45(2H, d, J=6.0 Hz), 8.94(2H, d, J=6.0 Hz), 9.83(1H, m), 10.22(1H, m) (DMSO-d6)	447

1.91-2.03(2H, m), 3.09(1H, m),	
XA 2016 3.28-3.57(7H, m), 3.40(3H, s), 4.41(2H, m), 6.58(2H, d, J= 8.7 Hz), 7.13(1H, s), 7.46(2H, d, J= 8.7 Hz), 8.44(2H, d, J=6.3 Hz), 8.94(2H, d, J=6.3 Hz), 9.61(1H, m), 9.89(1H, m) (DMSO-d6)	433
2.97 (6H, s), 3.45 (3H, s), 4.20-3.30 (6H, m), 4.53 (1H, t, J = 9.8 Hz), 6.69 (2H, br s), 7.14 (1H, s), 7.57 (2H, br s), 8.48 (2H, br s), 8.96 (2H, br s), 9.72 (1H, br s), 10.09 (1H, br s) (DMSO-d6)	391
XA 2018 3.18-3.22(1H, m), 3.44-3.80(15H, m), 4.51-4.55(1H, m), 5.11(2H, s), 7.04-7.07(3H, m), 7.32-7.39(5H, m), 7.52-7.55(2H, m), 8.33-8.35(2H, m), 8.82-8.87(2H, m), 9.65-9.75(2H, br)(DMSO-d6)	566
XA 2019 1.32(6H, d, J=6.8Hz), 3.04-3.88(18H, m), 4.52-4.55(1H, m), 7.09-7.12(3H, m), 7.62(2H, d, J=7.2Hz), 8.45(2H, d, J=4.2Hz), 8.94(2H, d, J=4.2Hz), 9.83-10.34(3H, br), 11.00-11.04(1H, br)(DMSO-d6)	474
XA 2020 1.32(6H, d, J=6.8Hz), 3.04-3.88(18H, m), 4.52-4.55(1H, m), 7.09-7.12(3H, m), 7.62(2H, d, J=7.2Hz), 8.45(2H, d, J=4.2Hz), 8.94(2H, d, J=4.2Hz), 9.83-10.34(3H, br), 11.00-11.04(1H, br)(DMSO-d6)	476
2.09(3H, s), 3.19-4.00(20H, m), 4.43-4.54(3H, m), 7.06-7.19(3H, m), 7.62(2H, d, J=7.2Hz), 8.44(2H, d, J=4.2Hz), 8.94(2H, d, J=4.2Hz), 9.82-9.85(1H, br), 10.26-10.30(1H, br), 11.30-11.40(1H, br)(DMSO-d6)	518
XA 2022 3.17-3.21(4H, m), 3.38-4.16(14H, m), 4.51-4.54(1H, m), 7.08-7.18(3H, m), 7.60(2H, d, J=7.2Hz), 8.43(2H, d, J=4.2Hz), 8.93(2H, d, J=4.2Hz), 9.26-9.34(2H, br), 9.81-84(1H, br), 10.25-10.30(1H, br)(DMSO-d6)	432
1.82(3H, m), 3.29(3H, m), 3.40-3.96(9H, m), 3.48(3H, s), 4.55(1H, m), 7.10(1H, s), 7.13(2H, d, J=8.4 Hz), 7.56(2H, d, J=8.4 Hz), 8.39(2H, d, J=6.0 Hz), 8.91(2H, d, J=6.0 Hz), 9.67(1H, m), 9.97(1H, m) (DMSO-d6)	445

	14.00.0.00(0)1> 0.05.0	
XA 2024	1.89-2.03(2H, m), 2.95-3.07(5H, m), 3.29-3.83(5H, m), 3.40(3H, s), 4.40(1H, m), 4.94(1H, m), 6.49(2H, d, J= 8.4 Hz), 7.13(1H, s), 7.25(2H, d, J= 8.4 Hz), 7.95(2H, d, J=6.0 Hz), 8.69(2H, d, J=6.0 Hz) (DMSO-d6)	433
XA 2025	1.16(6H, d, J= 6.3 Hz), 2.28-2.36(2H, m), 2.97-3.21(6H, m), 3.54(3H, s), 3.55-3.62(4H, m), 3.95(1H, m), 6.66(1H, s), 6.93(2H, d, J= 8.7 Hz), 7.32(2H, d, J= 8.7 Hz), 7.80(2H, d, J=6.3 Hz), 8.70(2H, d, J=6.3 Hz) (CDCI3)	460
XA 2026	1.26(6H, d, J= 6.3 Hz), 2.42(2H, dd, J= 11.1, 11.1 Hz), 3.02(1H, dd, J= 12.3, 10.8 Hz), 3.17-3.22(3H, m), 3.45-3.63(4H, m), 3.55(3H, s), 3.81(1H, m), 3.95(1H, dd, J= 13.2, 2.1 Hz), 6.66(1H, s), 6.92(2H, d, J= 8.4 Hz), 7.34(2H, d, J= 8.4 Hz), 7.80(2H, d, J=6.0 Hz), 8.70(2H, d, J=6.0 Hz) (CDCI3)	461
XA 2027	2.91-3.09(5H, m), 3.26(3H, s), 3.46(3H, s), 3.69-3.73(2H, m), 4.07-4.11(1H, m), 6.81(1H, s), 7.64(2H, d, J=7.2Hz), 7.77(2H, d, J=7.2Hz), 7.94-8.02(6H, m), 8.68(1H, d, J=4.2Hz)(DMSO-d6)	502
XA 2028	3.28-3.32(4H, m), 3.46(3H, s), 3.86-3.91(2H, m), 4.59-4.61(1H, m), 6.90(1H, s), 7.77-8.06(10H, m), 8.70(2H, d, J=4.2Hz), 9.36-9.44(1H, br)(DMSO-d6)	449
XA 2029	3.08 (1H, dd, J = 12.4, 10.4 Hz), 3.25 (3H, m), 3.58 (3H, s), 3.68 (2H, m), 4.09 (1H, dd, J = 10.4, 2.4 Hz), 6.68 (1H, s), 7.29 (2H, d, J = 8.4 Hz), 7.54 (2H, d, J = 8.4 Hz), 7.56 (2H, d, J = 8.4 Hz), 7.59 (2H, d, J = 8.4 Hz), 7.81 (2H, dd, J = 4.4, 1.6 Hz), 8.71 (2H, dd, J = 4.4, 1.6 Hz) (CDCI3)	·508
XA 2030	3.08 (1H, dd, J = 12.4, 10.4 Hz), 3.27 (3H, m), 3.58 (3H, s), 3.70 (2H, m), 4.11 (1H, dd, J = 10.4, 2.4 Hz), 6.68 (1H, s), 7.57 (2H, d, J = 8.0 Hz), 7.63 (2H, d, J = 8.0 Hz), 7.70 (4H, s), 7.81 (2H, dd, J = 4.8, 1.2 Hz), 8.71 (2H, dd, J = 4.8, 1.2 Hz) (CDCI3)	492
XA 2031	1.45 (3H, t, J = 12.4 Hz), 3.08 (1H, dd, J = 12.4, 10.8 Hz), 3.24 (3H, m), 3.57 (3H, s), 3.67 (2H, m), 4.07 (1H, m), 4.09 (2H, q, J = 7.0 Hz), 6.67 (1H, s), 6.97 (2H, d, J = 8.4 Hz), 7.51 (2H, d, J = 8.4 Hz), 7.51 (2H, d, J = 8.4 Hz), 7.54 (2H, d, J = 8.4 Hz), 7.57 (2H, d, J = 8.4 Hz), 7.81 (2H, dd, J = 4.8, 1.2 Hz), 8.71 (2H, dd, J = 4.8, 1.2 Hz) (CDCI3)	468

XA 2032	1.94 (4H, m), 2.02 (1H, m), 2.21 (1H, m), 2.62 (4H, m), 2.91 (1H, m), 3.03 (1H, dd, J = 12.4, 10.4 Hz), 3.20 (4H, m), 3.33 (1H, m), 3.48 (2H, m), 3.54 (3H, s), 3.62 (2H, m), 3.91 (1H, dd, J = 10.4, 2.4 Hz), 6.55 (2H, d, J = 8.4 Hz), 6.66 (1H, s), 7.29 (2H, d, J = 8.4 Hz), 7.81 (2H, dd, J = 4.4, 0.8 Hz), 8.70 (2H, dd, J = 4.4, 0.8 Hz) (CDCI3)	468
XA 2033	2.29(3H, s), 3.06(4H, t, J=4.8Hz), 3.38(4H, t, J=4.8Hz), 3.51(3H, s), 5.70(1H, s), 6.67(1H, s), 7.24-7.29(5H, m), 7.83(2H, dd, J=1.6, 4.3Hz), 8.72(2H, dd, J=1.3, 4.5Hz)(CDCI3)	427
XA 2034	3.09 (1H, dd, J = 12.0, 10.8 Hz), 3.23 (3H, m), 3.57 (3H, s), 3.66 (2H, m), 3.82 (3H, s), 3.86 (3H, s), 4.06 (1H, dd, J = 10.8, 2.4 Hz), 6.58 (2H, m), 6.67 (1H, s), 7.24 (2H, m), 7.47 (2H, d, J = 8.0 Hz), 7.53 (2H, d, J = 8.0 Hz), 7.82 (2H, dd, J = 4.8, 1.2 Hz), 8.71 (2H, dd, J = 4.8, 1.2 Hz) (CDCI3)	484
XA 2035	3.08 (3H, dd, J = 12.4, 10.8 Hz), 3.25 (3H, m), 3.57 (3H, s), 3.67 (2H, m), 3.93 (3H, s), 3.96 (3H, s), 4.08 (1H, dd, J = 10.0, 2.0 Hz), 6.68 (1H, s), 6.95 (1H, d, J = 8.4 Hz), 7.11 (1H, d, J = 2.4 Hz), 7.16 (1H, dd, J = 8.4, 2.4 Hz), 7.51 (2H, d, J = 8.0 Hz), 7.58 (2H, d, J = 8.0 Hz), 7.81 (2H, dd, J = 4.8, 1.2 Hz), 8.71 (2H, dd, J = 4.8, 1.2 Hz) (CDCI3)	484
XA 2036	3.08 (1H, dd, J = 12.4, 10.8 Hz), 3.26 (3H, m), 3.57 (3H, s), 3.67 (2H, m), 4.09 (1H, dd, J = 10.0, 2.0 Hz), 6.68 (1H, s), 7.42 (2H, d, J = 8.4 Hz), 7.53 (4H, d, J = 8.4 Hz), 7.58 (2H, d, J = 8.4 Hz), 7.80 (2H, dd, J = 4.8, 1.6 Hz), 8.71 (2H, dd, J = 4.8, 1.6 Hz) (CDCI3)	458
XA 2037	3.09 (1H, dd, J = 12.4, 10.8 Hz), 3.25 (3H, m), 3.58 (3H, s), 3.69 (2H, m), 4.11 (1H, dd, J = 10.4, 2.4 Hz), 6.68 (1H, s), 7.28 (2H, m), 7.44 (2H, d, J = 8.0 Hz), 7.51 (3H, m), 8.81 (2H, dd, J = 4.0, 1.2 Hz), 8.72 (2H, dd, J = 4.0, 1.2 Hz) (CDCI3)	492
XA 2038	3.07 (1H, dd, J = 12.3, 11.0 Hz), 3.26 (3H, m), 3.57 (3H, s), 3.67 (2H, m), 4.10 (1H, dd, J = 10.2, 2.1 Hz), 6.68 (1H, s), 7.42 (1H, dd, J = 8.1, 2.2 Hz), 7.55 (5H, m), 7.68 (1H, d, J = 2.2 Hz), 7.80 (2H, dd, J = 4.8, 1.3 Hz), 8.71 (2H, dd, J = 4.8, 1.3 Hz) (CDCI3)	492

XA 2039	3.06 (1H, dd, J = 12.0, 10.8 Hz), 3.24 (3H, m), 3.58 (3H, s), 3.67 (2H, m), 4.13 (1H, dd, J = 10.4, 2.4 Hz), 6.68 (1H, s), 7.61 (2H, d, J = 8.4 Hz), 7.80 (2H, d, J = 4.4 Hz), 8.15 (2H, d, J = 8.4 Hz), 8.71 (2H, d, J = 4.4 Hz), 8.77 (1H, s) (CDCI3)	416
XA 2040	3.04-3.26(4H, m), 3.57(3H, s), 3.66-3.71(2H, m), 4.07(1H, m), 5.12(2H, s), 6.68(1H, s), 7.06(2H, d, J= 8.7 Hz), 7.40-7.59(11H, m), 7.81(2H, d, J=6.0 Hz), 8.71(2H, d, J=6.0 Hz) (CDCI3)	530
XA 2041	0.38(2H, m), 0.67(2H, m), 1.32(1H, m), 3.09(1H, dd, J=12.6, 11.1 Hz), 3.22-3.28(3H, m), 3.58(3H, s), 3.67-3.71(2H, m), 3.86(2H, d, J= 6.9 Hz), 4.08(1H, m), 6.68(1H, s), 7.06(2H, d, J= 9.0 Hz), 7.49-7.60(6H, m), 7.82(2H, d, J=6.0 Hz), 8.72(2H, d, J=6.0 Hz) (CDCI3)	494
XA 2042	1.37(6H, d, J= 6.0 Hz), 3.08(1H, dd, J=12.3, 11.1 Hz), 3.20-3.28(3H, m), 3.57(3H, s), 3.65-3.70(2H, m), 4.06(1H, m), 4.59(1H, m), 6.67(1H, s), 7.06(2H, d, J= 9.0 Hz), 7.48-7.59(6H, m), 7.81(2H, d, J=6.0 Hz), 8.71(2H, d, J=6.0 Hz) (CDCl3)	482
XA 2043	0.99(3H, t, J= 7.5 Hz), 1.40-1.85(4H, m), 3.05-3.30(4H, m), 3.57(3H, s), 3.65-3.70(2H, m), 4.00-4.10(3H, m), 6.67(1H, s), 6.97(2H, d, J= 8.7 Hz), 7.50-7.56(6H, m), 7.81(2H, d, J=6.0 Hz), 8.71(2H, d, J=6.0 Hz) (CDCI3)	496
XA 2044	1.66(1H, br.s), 2.52(3H, s), 3.05(1H, dd, J=10.5, 12.6Hz), 3.20-3.26(3H, m), 3.57(3H, s), 3.62-3.72(2H, m), 4.07(1H, dd, J=2.1, 10.5Hz), 6.67(1H, s), 7.33(2H, d, J=8.4Hz), 7.50-7.61(6H, m), 7.81(2H, dd, J=1.6, 4.3Hz), 8.70(2H, dd, J=1.3, 4.5Hz)(CDCI3)	469
XA 2045	1.72(1H, br.s), 2.40(3H, s), 2.98-3.26(5H, m), 3.57(3H, s), 3.57-3.67(1H, m), 4.07(1H, dd, J=2.1, 10.5Hz), 6.67(1H, s), 7.24(2H, d, J=8.1Hz), 7.49-7.52(4H, m), 7.60(2H, d, J=8.1Hz), 7.81(2H, dd, J=1.6, 4.3Hz), 8.70(2H, dd, J=1.3, 4.5Hz)(CDCI3)	437
XA 2046	1.36(9H, s), 1.72(1H, br.s), 3.06(1H, dd, J=10.5, 12.4Hz), 3.20-3.28(3H, m), 3.57(3H, s), 3.57-3.67(2H, m), 4.07(1H, dd, J=2.1, 10.5Hz), 6.67(1H, s), 7.24(2H, d, J=8.1Hz), 7.43-7.56(6H, m), 7.81(2H, dd, J=1.6, 4.3Hz), 8.71(2H, dd, J=1.3, 4.5Hz)(CDCI3)	479

	14.00/01/	
XA 2047	1.29(6H, d, J=6.9Hz), 1.73(1H, br.s), 2.96(1H, m), 3.06(1H, dd, J=10.5, 12.4Hz), 3.21-3.29(3H, m), 3.57(3H, s), 3.62-3.71(2H, m), 4.07(1H, dd, J=2.1, 10.5Hz), 6.67(1H, s), 7.31(2H, d, J=8.1Hz), 7.45-7.54(4H, m), 7.63(2H, d, J=8.1Hz), 7.81(2H, dd, J=1.6, 4.3Hz), 8.71(2H, dd, J=1.3, 4.5Hz), (CDCI3)	465
XA 2048	1.68(2H, br.s), 2.98(1H, dd, J=10.5, 12.6Hz), 3.20-3.27(2H, m), 3.56(3H, s), 3.64-3.74(1H, m), 4.04(1H, dd, J=3.3, 11.1Hz), 4.80(3H, s), 6.66(1H, s), 6.72(2H, d, J=8.5Hz), 7.49-7.52(4H, m), 7.63(2H, d, J=8.1Hz), 7.81(2H, dd, J=1.6, 4.3Hz), 8.70(2H, dd, J=1.3, 4.5Hz)(DMSO-d6)	
XA 2049	2.67 (3H, s), 3.06 (1H, dd, J = 12.4, 10.8 Hz), 3.25 (3H, m), 3.57 (3H, s), 3.62 (2H, m), 4.12 (1H, dd, J = 10.0, 2.0 Hz), 6.68 (1H, s), 7.59 (2H, d, J = 8.0 Hz), 7.80 (1H, dd, J = 4.8, 1.2 Hz), 8.09 (1H, d, J = 8.0 Hz), 8.71 (1H, dd, J = 4.8, 1.2 Hz) (CDCI3)	430
XA 2050	3.05(1H, m), 3.30-3.48(3H, m), 3.64(3H, s), 4.08-4.22(2H, m), 4.68(1H, m), 5.15(1H, d, J= 12.3 Hz), 5.21(1H, d, J= 12.6 Hz), 6.63(1H, s), 7.21(2H, d, J= 8.4 Hz), 7.28-7.39(7H, m), 7.59(2H, d, J=6.3 Hz), 8.68(2H, d, J=6.3 Hz) (CDCI3)	560
XA 2051	2.88-3.34(6H, m), 3.67(3H, s), 4.56(1H, dd, J= 9.9, 3.3 Hz), 6.62(1H, s), 7.19(2H, d, J= 10.8 Hz), 7.36(2H, d, J= 10.8 Hz), 7.58(2H, dd, J=4.5, 1.5 Hz), 8.67(2H, dd, J=4.5, 1.5 Hz) (CDCI3)	426
XA 2052	3.04(1H, m), 3.29-3.48(3H, m), 3.64(3H, s), 4.10-4.15(2H, m), 4.68(1H, m), 5.15(1H, d, J= 12.3 Hz), 5.21(1H, d, J= 12.6 Hz), 6.63(1H, s), 7.21(2H, d, J= 8.1 Hz), 7.32-7.39(7H, m), 7.59(2H, d, J=6.0 Hz), 8.68(2H, d, J=6.0 Hz) (CDCI3)	560
XA 2053	3.01(1H, m), 3.29-3.41(3H, m), 3.66(3H, s), 4.05-4.13(2H, m), 4.67(1H, m), 6.64(1H, s), 7.23(2H, d, J= 8.4 Hz), 7.41(2H, d, J= 8.4 Hz), 7.60(2H, dd, J=4.5, 1.5 Hz), 8.69(2H, dd, J=4.5, 1.5 Hz) (CDCI3)	527
XA 2054	2.28(3H, s), 3.07(4H, m), 3.59(4H, m), 3.73(3H, s), 5.78(1H, s), 6.70(1H, s), 6.98(1H, m), 7.40(1H, m), 7.60-7.66(2H, m), 7.81(2H, dd, J=1.6, 4.3Hz), 8.72(2H, dd, J=1.3, 4.5Hz)(CDCI3)	445

XA 2055	8.72(2H, d, J=4.5Hz)(CDCi3)	428
XB13	m), 6.93(1H, s), 7.20-7.35(5H, m), 8.26(2H, d, J=5.7 Hz), 8.87(2H, d, J=5.9 Hz)(DMSO-d6)	
XB16	7.26-7.40(5H, m), $7.81(2H, d, J = 6.0 Hz)$, $8.70(2H, d, J = 6.0 Hz)$, (CDC)	347
XB17	7.76-1.99(5H, m), 2.97-3.10(2H, m), 3.75(1H, d, J=12.4 Hz), 6.81(1H, s), 7.18-7.24(2H, m), 7.28-7.35(1H, m), 7.47(1H, t, J=7.1 Hz), 7.98(2H, d, J=5.8 Hz), 8.68(2H, d, J=5.8 Hz)(DMSO-ds)	365
XB19	1.86-2.14(4H, m), 2.94-3.03(3H, m), 3.55(3H, s), 3.68-3.75(2H, m), 6.66(1H, s), 7.05(2H, m), 7.23(2H, m), 7.80(2H, d, J = 6.3 Hz), 8.70(2H, d, J = 6.3 Hz)(CDC(2))	365
XB33	3.42(3H, s), 3.77(2H, m), 3.85(3H, s), 6.65(1H, s), 6.89-7.00(2H, m), 7.22-7.28(2H, m), 7.82(2H, d, J = 6.0 Hz), 8.70(2H, d, J = 6.0 Hz)	377
XB35	1.73-1.83(4H, m), 2.90-3.02(3H, m), 3.42(3H, s), 3.67-3.81(2H, m), 3.74(3H, s), 6.80(1H, s), 6.91(2H, d, J=8.7 Hz), 7.27(2H, d, J=8.5 Hz), 7.97(2H, d, J=5.9 Hz), 8.69(2H, d, J=5.7 Hz)(DMSO-d6)	377
XB43	1.69-1.90(7H, m), 1.94-2.00(1H, m), 2.59-2.68(4H, m), 2.92-3.02(3H, m), 3.43(3H, s), 3.69-3.80(4H, m), 6.59(3H, s), 6.79(1H; s), 7.29-7.36(4H, m), 7.96(2H, d, J=5.9 Hz), 8.68(2H, d, J=5.1 Hz)(DMSO-d6)	430
XB46	3.15(1H, m), 3.45(1H, dd, J=12.9, 10.8Hz), 3.57(3H, s), 3.61-3.72(2H, m), 4.08(1H, m), 6.67(1H, s), 7.32(1H, m), 7.58-7.60(2H, m), 7.74(1H, d, J=7.8Hz), 7.80(2H, dd, J=4.5, 1.5Hz), 8.69(2H, dd, J=4.5, 1.5Hz)	388
XB47	(CDCi3): 1.90-2.06(3H, m), 2.36(1H, m), 3.14(1H, m), 3.42(1H, m), 3.57(3H, s), 3.61-3.71(2H, m), 4.06(1H, m), 6.68(1H, s), 7.09(1H, m), 7.28(1H, m), 7.68(1H, dd, J=8.8, 5.1Hz), 7.79(2H, d, J=4.7Hz), 8.69(2H, d, J=5.9Hz).	406

Γ	1.00.2.40(21)	
	1.90-2.10(3H, m), 2.32-2.44(1H, m), 3.11-3.20(1H, m), 3.45(1H, dd, J=10.5, 12.6	3
XB48	1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	
	1 1 1 2 2 1 1 2 4 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	, 388
	1 1 100(21), du, J-1.0, 4.5 Hz) 8 70/20 33	1
		1
	1.91-2.09(3H, m), 2.37-2.42(1H, m),	
	13.12-3.19(1H m) 3.45/1L	1
XB49		
	d, J=11.1 Hz), 6.67(1H, s), 7.30-7.35(1H, m), 7.54-7.62(2H, m), 7.75(1H, d, J=8.1 Hz),	388
1	1 1 2 2 (2 1), 44, 3 1, 1, 2, 4, 5 Hz) 8 70/24 22	
ļ	19 119, 719 (12/16/16/13)	
	1.59-1.67(1H, m) 1.72-1.94(4H, m)	
	12.00(10, 01, J=3 4 19 7 D=1 2 00 0 4 4	
XB50		
	3.42(3H, s), 3.93(1H, d, J=14.0 Hz), 7.02(1H, s), 7.24-7.29(1H, m), 7.34-7.39(2H, m), 7.56-7.59(2H, m),	363
	17.00-7.09(20, m), 8.55(2H d lace us)	
		1
1	12.41-2.36(4H m) 3 10.2 24/01	
XB80	1 9.40(3D, 8), 3.88(2H d l=12 2 L=1 2 2 c	ľ
YPOU		372
		0.2
	1.44(2H, m), 1.75-1.83(3H, m), 2.63(2H, d, J = 6.9 Hz), 2.90(2H, m), 3.51(3H, s), 3.64(2H, m), 6.65(1H, s), 7.17-7.64(2H, m)	
XB122		
		361
	(95010)	
	1.44-2.16(5H, m), 2.86-2.97(2H, m),	
XB123	3.49(3H, s), 3.62(1H, m), 3.72(1H, m), 4.48(1H, d, l = 7.2 H-), 3.72(1H, m),	
	4.48(1H, d, J = 7.2 Hz), 6.64(1H, s), 7.07(2H, m), 7.32(2H, m), 7.79(2H, d, J = 6.3 Hz),	395
	1.00-1.00(3H M) 1.79/1U> 0.46///	
XB124	\	
	''=' '''	409
	6.0 Hz) (CDC(3)	ĺ
	1.87-2.06(4H, m) 2.79(1H, m) 2.40(01)	
XB127		
	''49"',43(3 ,)	347
		1
XB130	TET (TO THE OFFICE OF THE PROPERTY OF THE OFFI	
	7.03(2H, m), 7.23(2H, m), 7.84(2H, d, J = 5.4 Hz), 8.72(2H, br s) (CDCl3)	365
	1.78-1.95(4H, m), 2.80-2.91(1H, m), 2.96-3.09(2H, m), 2.45(6H, m),	
XB134		
	- '-'' ''-' ''-' ''-'' ''-'' ''-'' ''-'' ''-''	1
		415
1	J=1.6, 4.5 Hz), 8.69(2H, dd, J=1.5, 4.5 Hz)(DMSO-d6)	}
	·/\-/\-/\\	i

XB145	1.82-2.02(4H, m), 3.09-3.27(3H, m), 3.57(3H, s), 3.79(2H, m), 3.86(3H, s), 6.67(1H, s), 6.89-6.99(2H, m), 7.21-7.26(2H, m), 7.84(2H, d, J = 6.0 Hz), 8.72(2H, d, J = 6.0 Hz) (CDCI3)	377
XB157	1.85-2.07(2H,m), 2.17-2.30(2H,m), 2.91-3.10(1H,m), 3.10-3.24(2H,m), 3.57(3H,s), 3.71-3.88(2H,m), 6.69(1H,s), 6.99-7.06(1H,m), 7.21(1H,dd,J=2.1,8.7Hz), 7.45(1H,s), 7.49-7.65(1H,m), 7.83(2H,dd,J=1.8,4.5Hz), 8.72(2H,dd,J=1.2,4.8Hz)(CDCI3)	405
XB158	2.22-2.32(4H, m), 3.22(2H, m), 3.37(1H, m), 3.58(3H, s), 3.82(2H, m, 6.71(1H, s), 7.10(1H, m), 7.29(1H, m), 7.67(1H, m), 7.83(2H, d, J = 6.3 Hz), 8.72(2H, d, J = 6.3 Hz) (CDCI3)	406
XB159	2.19-2.26(4H, m), 3.21(2H, m), 3.35(1H, m), 3.59(3H, s), 3.82(2H, m), 6.70(1H, s), 6.95(1H, dt, J = 9.0, 2.1 Hz), 7.13(1H, dd, J = 9.0, 2.1 Hz), 7.71(1H, m), 7.85(2H, d, J = 6.3 Hz), 8.72(2H, d, J = 6.3 Hz) (CDCl3)	405
XB160	2.13-2.34(2H,m), 2.34-2.43(2H,m), 3.10-3.38(3H,m), 3.57(3H,s), 3.68-3.83(2H,m), 6.69(1H,s), 7.29-7.40(2H,m), 7.46-7.59(1H,m), 7.64-7.78(1H,m), 7.80-7.78(2H,m), 8.72(2H,d,J=6.0Hz)(CDCI3)	388
XB161	2.19(2H, m), 2.38(2H, m), 3.18(2H, m), 3.39(1H, m), 3.58(3H, s), 3.80(2H, m), 6.70(1H, s), 7.39(1H, m), 7.50(1H, m), 7.83(2H, d, J = 6.0 Hz), 7.89(1H, d, J = 7.2 Hz), 8.01(1H, d, J = 7.8 Hz), 8.73(2H, d, J = 6.0 Hz) (CDCI3)	404
XB162	1.96(2H, m), 2.88(2H, m), 3.15(2H, m), 3.60(3H, s), 3.85(2H, m), 4.63(1H, m), 6.73(1H, s), 7.13-7.23(3H, m), 7.46(1H, d, J = 7.5 Hz), 7.84(2H, d, J = 6.3 Hz), 8.73(2H, d, J = 6.3 Hz)(CDCl3)	420
XB164	1.64(2H, m), 2.23(2H, m), 3.13(2H, m), 3.50(1H, m), 3.53(3H, s), 3.68(2H, m), 6.58(2H, m), 6.68(1H, s), 6.91(2H, m), 7.81(2H, d, J = 6.0 Hz), 8.72(2H, d, J = 6.0 Hz) (CDCI3)	380
XB165	1.91-1.99(4H, m), 2.84(3H, s), 3.07(2H, m), 3.55(3H, s), 3.77(2H, m), 3.84(1H, m), 6.69(1H, s), 6.75-6.87(3H, m), 7.27(2H, m), 7.82(2H, d, J = 6.3 Hz), 8.72(2H, d, J = 6.3 Hz) (CDCI3)	376
XB168	1.52(2H, m), 1.79(3H, s), 1.96(2H, m), 3.09(2H, m), 3.42(3H, s), 3.64(2H, m), 4.86(1H, m), 6.63(1H, s), 7.09-7.19(4H, m), 7.74(2H, d, J = 6.0 Hz), 8.70(2H, d, J = 6.0 Hz) (CDCI3)	422

XB169	(11), 7.54(2H, d, J = 7.5 Hz), 7.84(2H, d, J = 6.0 Hz), 8.71(2H, d, J = 6.0 Hz) (CDCl3)	363
XB201	8.01(2H, dd, J=1.5, 4.5 Hz), 8.70(2H, dd, J=1.5, 4.5 Hz)(DMSO-d6)	390
XB227	7.39-7.46(4H, m), 7.97(2H, dd, J=1.5, 4.5 Hz), 8.68(2H, dd, J=1.5, 4.5 Hz)/DMSO 403	389
XB256	2.97-3.02(3H, m), 2.10(1H, m), 2.51(4H, m), 2.97-3.02(3H, m), 3.58(3H, s), 3.55(3H, s), 3.62(2H, s), 3.74(1H, m), 6.66(1H, s), 7.16(2H, d, J=7.8Hz), 7.32(1H, d, J=7.8Hz), 7.80(2H, dd, J=1.5, 4.8Hz), 8.70(2H, dd, J=1.5, 4.8Hz)(CDCI3)	430
XB257	1.77-1.85(8H, m), 2.10(1H, m), 2.51(4H, m), 2.97-3.02(3H, m), 3.58(3H, s), 3.55(3H, s), 3.62(2H, s), 3.74(1H, m), 6.66(1H, s), 7.16(2H, d, J=7.8Hz), 7.32(1H, d, J=7.8Hz), 7.80(2H, dd, J=1.5, 4.8Hz), 8.70(2H, dd, J=1.5, 4.8Hz)(CDCl3)	430
XB258	1.86 (4H, m), 1.99 (4H, m), 3.03 (5H, m), 3.35 (4H, m), 3.43 (3H, s), 3.73 (2H, m), 4.30 (2H, s), 6.81 (1H, s), 7.43 (2H, d, J = 8.1 Hz), 7.69 (2H, d, J = 8.1 Hz), 7.97 (2H, d, J = 6.0 Hz), 8.69 (2H, d, J = 6.0 Hz), 11.01 (1H, br s)	429
XB259	1.75 (1H, m), 1.89 (3H, m), 1.97 (3H, m), 2.13 (1H, d, J = 13.6 Hz), 3.02 (3H, m), 3.46 (2H, t, J = 7.0 Hz), 3.55 (3H, s), 3.66 (2H, t, J = 7.0 Hz), 3.75 (2H, m), 6.66 (1H, s), 7.30 (2H, d, J = 8.0 Hz), 7.52 (2H, d, J = 8.0 Hz), 7.80 (2H, dd, J = 6.0, 1.2 Hz), 8.71 (2H, dd, J = 6.0, 1.2 Hz)	443
XB260	1.77-1.86(8H, m), 2.94-3.06(5H, m), 3.43(3H, s), 3.73-3.78(2H, m), 4.28-4.31(2H, m), 6.81(1H, s), 7.44(2H, d, J=7.3Hz), 7.57(2H, d, J=7.3Hz), 7.96(2H, d, J=4.2Hz), 8.63(2H, d, J=4.2Hz), 10.75-10.80(1H, br)(DMSO-d6)	430
XB261	1.45-1.59(6H, m), 1.73-1.94(4H, m), 2.10-2.15(4H, m), 2.98-3.05(3H, m), 3.49(2H, m), 3.55(3H, s), 3.74-3.77(2H, m), 6.65(1H, s), 7.22(2H, d, J=8.4 Hz), 7.33(2H, d, J=8.4 Hz), 7.80(2H, d, J=6.0 Hz), 8.70(2H, d, J=6.0 Hz)(CDCl3)	444

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XB262	J=8.4 Hz), 7.33(2H, d, J=8.4 Hz), 7.81(2H, d, J=6.0 Hz), 8.71(2H, d, J=6.0 Hz)(CDCI3)	472
ХВ263	J=8.4 Hz), 7.58(2H, d, J=8.4 Hz), 8.21(2H, d, J=6.0 Hz), 8.82(2H, d, J=6.0 Hz)(DMSO-d6)	473
XB264	6.65(1H, s), 7.18(2H, d, J=8.4 Hz), 7.34(2H, d, J=8.4 Hz), 7.80(2H, d, J=6.0 Hz), 8.70(2H, d, J=6.0 Hz), 8.70(2H, d, J=6.0 Hz)	486
XB265	1.02(6H, d, J=6.6Hz), 1.23-1.28(5H, m), 1.72-2.15(9H, m), 2.51(1H, m), 2.97-3.08(4H, m), 3.55(3H, s), 3.70(2H, s), 3.74-3.78(2H, m), 6.65(1H, s), 7.18(2H, d, J=7.8 Hz), 7.34(2H, d, J=7.8 Hz), 7.81(2H, d, J=6.0 Hz), 8.70(2H, d, J=6.0 Hz)(CDCl3)	500
XB266	2.99-3.09(4H, m), 2.44(1H, m), 2.80(6H, s), 2.99-3.09(4H, m), 3.42(3H, s), 3.62-3.79(6H, m), 4.42(3H, m), 6.95(1H, s), 7.45(2H, d, J=8.1 Hz), 7.58(2H, d, J=8.1 Hz), 8.29(2H, d, J=6.0 Hz), 8.86(2H, d, J=6.0 Hz)(DMSO-d6)	473
XB267	1.85-1.88(4H, m), 2.81(1H, m), 2.99-3.07(2H, m), 3.44(3H, s), 3.79-3.84(2H, m), 6.82(1H, s), 7.29(2H, d, J=8.4 Hz), 7.51(2H, d, J=8.4 Hz), 8.01(2H, d, J=6.0 Hz), 8.70(2H, d, J=6.0 Hz)(DMSO-d6)	425
XB268	1.83-1.99(4H, m), 2.83(1H, m), 2.98-3.06(2H, m), 3.45(3H, s), 3.79-3.84(2H, m), 6.82(1H, s), 7.29-7.43(3H, m), 7.53(1H, s), 8.01(2H, d, J=6.0 Hz), 8.70(2H, d, J=6.0 Hz)(DMSO-d6)	425
XB269	1.74-1.96(8H, m), 2.51(1H, m), 2.65-3.01(2H, m), 3.04-3.18(4H, m), 3.44(3H, s), 3.77-3.81(2H, m), 6.49(2H, d, J=8.4 Hz), 6.80(1H, s), 7.09(2H, d, J=8.4 Hz), 8.00(2H, dd, J=4.5, 1.8 Hz), 8.69(2H, dd, J=4.5, 1.8 Hz)(DMSO-d6)	416
	1.83-1.99(8H, m), 2.72(1H, m), 2.97-3.07(2H, m), 3.19-3.23(4H, m), 3.45(3H, s), 3.78-3.83(2H, m), 6.38(1H, d, J=7.8 Hz) 6.44(1H, s), 6.53(1H, d, J=7.5 Hz), 6.81(1H, s), 7.09(1H, dd, J=7.8, 7.8 Hz), 8.00(2H, d, J=5.4 Hz), 8.70(2H, d, J=5.7 Hz)(DMSO-d6)	416

	1 81-1 92/21	
XB27	7.58-7.63(1H, m), 8.00(2H, d, J=4.2Hz) 8.69(2H, d, J=4.2Hz), 10.90(1H	404
XB272	1.53-1.63(2H, m), 2.02-2.07(2H, m) 3.11-3.19(2H, m), 3.41(3H, s), 3.60-3.72(3H, m), 6.12(1H, d, J=8.2Hz), 6.79-6.80(2H, m), 6.88-6.91(2H, m), 7.25-7.31(1H, m), 8.00(2H, d, J=4.2Hz), 8.70(2H, d, J=4.2Hz)(DMSO-d6)	
XB273	6.56-6.65(4H, m), 6.79(1H, s), 7.99(2H, d, J=4.2Hz), 8.69(2H, d, J=4.2Hz)(DMSO-d6)	
XB274	6.96(1H, dd, J=7.2Hz, 7.3Hz), 7.99(2H, d, J=4.2Hz), 8.69(2H, d, J=4.2Hz)(DMSO-d6)	392
XB275	1.48-1.59(2H, m), 2.00-2.07(2H, m), 3.06-3.13(2H, m), 3.40(3H, s), 3.44-3.46(1H, m), 3.64(3H, s), 3.66-3.71(2H, m), 5.07(1H, d, J=8.2Hz), 6.59(2H, d, J=7.2Hz), 6.70(2H, d, J=7.2Hz), 6.79(1H, s), 7.98(2H, d, J=4.2Hz), 8.68(2H, d, J=4.2Hz)(DMSO-d6)	392
XB276	1.57-1.68(2H, m), 2.03-2.07(2H, m), 3.05-3.09(2H, m), 3.41(3H, s), 3.51-3.77(6H, m), 4.57(1H, d, J=8.2Hz), 6.53-6.58(1H, m), 6.66-6.69(1H, m), 6.74-6.82(3H, m), 7.99(2H, d, J=4.2Hz), 8.68(2H, d, J=4.2Hz)(DMSO-d6)	392
XB277	1.78-1.92(4H, m), 2.94-3.07(5H, m), 3.41-3.86(10H, m), 6.88-6.92(1H, m), 7.04(1H, s), 7.21-7.24(2H, m), 7.39-7.44(1H, m), 8.48(2H, d, J=4.2Hz), 8.95(2H, d, J=4.2Hz)(DMSO-d6)	406
XB278	1.68-2.08(4H, m), 2.90-2.96(2H, m), 3.15(3H, s), 3.38(3H, s), 3.81-4.04(7H, m), 7.03(1H, s), 7.13(2H, d, J=7.2Hz), 7.81(2H, d, J=7.2Hz), 8.45(2H, d, J=4.2Hz), 8.94(2H, d, J=4.2Hz)(DMSO-d6)	406
XB279	1.76-1.85(4H, m), 2.65(3H, s), 2.85-2.94(2H, m), 3.41-3.42(1H, m), 3.44(3H, s), 3.74-3.79(2H, m), 4.02(3H, s), 6.78(1H, s), 6.83-6.99(4H, m), 7.97(2H, d, J=4.2Hz), 8.68(2H, d, J=4.2Hz)(DMSO-d6)	406

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XB280	1.86-1.98(4H, m), 2.98(6H, s), 3.01-3.10(2H, m), 3.40-3.92(11H, m), 7.00-7.13(2H, m), 7.42-7.50(2H, m), 8.51(2H, d, J=4.2Hz), 8.97(2H, d, J=4.2Hz)(DMSO-d6)	I
XB281	1.69-1.88(3H, m), 1.92-2.00(1H, m), 2.92-3.06(3H, m), 3.42(3H, s), 3.63-3.88(2H, m), 6.79(1H, s), 7.33(2H, d, J=8.4 Hz), 7.54(2H, d, J=8.4 Hz), 7.96(2H, d, J=5.7 Hz), 8.68(2H, d, J=6.0 Hz)(DMSO-d6)	425
XB282	2.51-2.60(4H, m), 3.47(3H, s), 3.65-3.68(4H, m), 6.54(1H, s), 8.00(2H, d, J=4.2Hz), 8.70(1H, d, J=4.2Hz)(DMSO-d6)	285
XB283	1.71-1.82(4H, m), 2.40-2.49(2H, m), 2.50-2.53(4H, m), 2.86-2.94(3H, m), 3.06-3.09(4H, m), 3.41(3H, s), 3.50-3.68(4H, m), 4.43-4.46(1H, m), 6.78(1H, s), 6.89(2H, d, J=7.2Hz), 7.17(2H, d, J=7.2Hz), 7.95(2H, d, J=4.2Hz), 8.67(2H, d, J=4.2Hz)	475
XB284	1.71-1.93(4H, m), 2.86(6H, s), 2.88-2.97(3H, m), 3.41(3H, s), 3.65-3.75(2H, m), 6.73(2H, d, J=7.2Hz), 6.78(1H, s), 7.15(2H, d, J=7.2Hz), 7.96(2H, d, J=4.2Hz), 8.68(2H, d, J=4.2Hz)(DMSO-d6)	390
XB285	1.72-1.83(4H, m), 2.89-2.96(3H, m), 3.05-3.09(4H, m), 3.42(3H, s), 3.71-3.75(4H, m), 6.78(1H, s), 6.91(2H, d, J=7.2Hz), 7.20(2H, d, J=7.2Hz), 7.96(2H, d, J=4.2Hz), 8.68(2H, d, J=4.2Hz)(DMSO-d6)	432
XB286	1.52-1.91(10H, m), 2.86-2.94(3H, m), 3.07-3.10(4H, m), 3.41(3H, s), 3.66-3.75(2H, m), 6.78(1H, s), 6.89(2H, d, J=7.2Hz), 7.16(2H, d, J=7.2Hz), 7.95(2H, d, J=4.2Hz), 8.68(2H, d, J=4.2Hz)(DMSO-d6)	430
XB287	1.64-1.88(4H, m), 2.21(3H, s), 2.42-2.45(4H, m), 2.89-2.94(3H, m), 3.07-3.11(4H, m), 3.41(3H, s), 3.69-3.75(2H, m), 6.78(1H, s), 6.90(2H, d, J=7.2Hz), 7.18(2H, d, J=7.2Hz), 7.96(2H, d, J=4.2Hz), 8.68(2H, d, J=4.2Hz)(DMSO-d6)	445
	1.43-1.47(2H, m), 1.71-1.90(6H, m), 2.19(6H, s), 2.58-2.66(2H, m), 2.87-2.95(2H, m), 2.87-2.98(3H, m), 3.30-3.32(1H, m), 3.41(3H, s), 3.64-3.75(4H, m), 6.78(1H, s), 6.90(2H, d, J=7.2Hz), 7.16(2H, d, J=7.2Hz), 7.96(2H, d, J=4.2Hz), 8.68(2H, d, J=4.2Hz)(DMSO-d6)	473

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XB289	1.72-1.94(4H, m), 2.92-2.99(3H, m), 3.08-3.11(4H, m), 3.41(3H, s), 3.52-3.56(4H, m), 3.66-3.75(2H, m), 5.11(2H, s), 6.78(1H, s), 6.93(2H, d, J=7.2Hz), 7.20(2H, d, J=7.2Hz), 7.28-7.39(5H, m), 7.95(2H, d, J=4.2Hz), 8.69(2H, d, J=4.2Hz)(DMSO-d6)	565
XB290	1.53-1.63(2H, m), 1.85-1.89(2H, m), 2.14(3H, s), 2.31-2.46(8H, m), 2.86-2.94(2H, m), 3.34-3.35(1H, m), 3.39(3H, s), 3.70-3.74(2H, m), 6.79(1H, s), 7.98(2H, d, J=4.2Hz), 8.69(2H, d, J=4.2Hz)(DMSO-d6)	369
XB291	1.52-1.63(2H, m), 1.85-1.90(2H, m), 2.34-2.42(11H, m), 2.86-2.94(2H, m), 3.39(3H, s), 3.45-3.50(2H, m), 3.70-3.74(2H, m), 4.38-4.40(1H, m), 6.80(1H, s), 7.98(2H, d, J=4.2Hz), 8.69(2H, d, J=4.2Hz)	399
XB292	1.71-1.83(4H, m), 2.81-3.00(11H, m), 3.28-3.30(1H, m), 3.41(3H, s), 3.66-3.75(2H, m), 6.78(1H, s), 6.89(2H, d, J=7.2Hz), 7.17(2H, d, J=7.2Hz), 7.96(2H, d, J=4.2Hz), 8.68(2H, d, J=4.2Hz)(DMSO-d6)	431
XB293	1.43-1.53(2H, m), 1.93-1.98(3H, m), 2.63-2.66(1H, m), 2.92-3.00(2H, m), 3.39(3H, s), 3.62-3.79(7H, m), 6.78(1H, s), 6.88-6.97(2H, m), 7.18-7.22(1H, m), 7.35(1H, d, J=7.3Hz), 7.98(2H, d, J=4.2Hz), 8.68(2H, d, J=4.2Hz)(DMSO-d6)	406
XB294	1.42-1.53(2H, m), 1.96-2.08(3H, m), 2.61-2.67(1H, m), 2.91-2.99(2H, m), 3.39(3H, s), 3.62-3.80(7H, m), 6.77(1H, s), 6.86(2H, d, J=7.2Hz), 7.25(2H, d, J=7.2Hz), 7.97(2H, d, J=4.2Hz), 8.68(2H, d, J=4.2Hz)(DMSO-d6)	406
XB295	1.81-1.91(2H, m), 2.61-2.20(2H, m), 2.96-3.17(6H, m), 3.41-3.47(5H, m), 3.74-3.86(4H, m), 6.90-7.03(3H, m), 7.21-7.29(2H, m), 8.44(2H, d, J=4.2Hz), 8.93(2H, d, J=4.2Hz), 9.30-9.38(2H, br)(DMSO-d6)	420
XB296	1.80-1.91(2H, m), 2.07-2.21(2H, m), 2.96-3.11(6H, m), 3.34-3.41(5H, m), 3.69-3.86(4H, m), 6.91(2H, d, J=7.2Hz), 7.05(1H, s), 7.20(2H, d, J=7.2Hz), 8.49(2H, d, J=4.2Hz), 8.96(2H, d, J=4.2Hz), 9.44-9.50(2H, br)(DMSO-d6)	420

	1.41-1.51(2H, m), 1.91-1.96(3H, m),	
XB297	m), 3.38(3H, s), 3.61-3.67(4H, m), 6.70(2H, d, J=7.2Hz), 6.77(1H, s), 7.20(2H, d, J=7.2Hz), 7.97(2H, d, J=4.2Hz), 8.68(2H, d, J=4.2Hz)(DMSO-d6)	419
XB298	2.04(2H, d, J=13.1Hz), 2.34(3H, s), 2.53(2H, m), 2.91(2H, m), 3.55(3H, s), 3.70(2H, d, J=13.1Hz), 4.27(1H, m), 6.08(1H, s), 6.86(1H, s), 7.36-7.48(5H, m), 7.80(2H, dd, J=1.6, 4.3Hz), 8.69(2H, dd, J=1.3, 4.5Hz)(CDCl3)	426
XB299	2.06(2H, d, J=13.1Hz), 2.22(2H, m), 2.99(2H, m), 3.13(1H, m), 3.54(3H, s), 3.70(2H, d, J=13.1Hz), 6.68(1H, s), 7.25(1H, s), 7.44-7.48(2H, m), 7.64-7.67(3H, m), 7.78(2H, dd, J=1.6, 4.3Hz), 8.69(2H, dd, J=1.3, 4.5Hz)(CDCl3)	413
XB300	1.75-1.85(4H, m), 2.97-3.10(5H, m), 3.43(3H, s), 3.71-3.76(2H, m), 3.88-3.93(2H, m), 6.70(1H, dd, J=7.2, 7.3Hz), 6.79(1H, s), 7.02-7.06(2H, m), 7.15-7.23(3H, m), 7.31-7.35(2H, m), 7.97(2H, d, J=4.2Hz), 8.69(2H, d, J=4.2Hz)(DMSO-d6)	464
XB301	1.09-1.34(5H, m), 1.57-1.88(9H, m), 2.78-2.93(3H, m), 3.08-3.18(1H, m), 3.41(3H, s), 3.62-3.74(2H, m), 5.27(1H, d, J=8.2Hz), 6.52(2H, d, J=7.2Hz), 6.79(1H, s), 7.01(2H, d, J=7.2Hz), 7.96(2H, d, J=4.2Hz), 8.68(2H, d, J=4.2Hz)(DMSO-d6)	444
XB302	1.10-1.16(1H, m), 1.32-1.46(4H, m), 1.64-1.82(9H, m), 2.68(3H, s), 2.82-2.93(3H, m), 3.41(3H, s), 3.54-3.74(3H, m), 6.72(2H, d, J=7.2Hz), 6.78(1H, s), 7.12(2H, d, J=7.2Hz), 7.95(2H, d, J=4.2Hz), 8.68(2H, d, J=4.2Hz)(DMSO-d6)	458

No.	NMR	140714
YA0262	(DMSO-d6): 3.47(3H, s), 3.48-3.66(4H, m), 3.89-4.02(2H, m), 4.98(1H, m), 7.06(1H, s), 7.35-7.59(3H, m), 7.99(1H, dd, J=7.2, 6.9Hz), 8.25(1H, dd, J=5.4, 1.2Hz), 9.01(1H, d, J=5.1Hz), 9.31(1H, s), 9.84(1H, m), 10.19(1H, m).	MS[M+1]
YA0263	(CDCl3):3.01(1H,dd,J=10.5,12.4Hz), 3.10-3.35(3H,m), 3.57(3H,s), 3.55-3.65(2H,m), 4.05(1H,dd,J=2.4,10.4Hz), 7.00-7.10(1H,m), 7.30(1H,s), 7.22(2H,m), 7.30-7.42(2H,m), 8.15(1H,dd,J=1.3,5.2Hz), 8.86(1H,d,J=5.2Hz), 9.27(1H,d,J=1.0Hz).	367

	1000441	
YA0264	2.83(1H, dd, J=11.0, 11.9 Hz), 2.93(1H, s), 2.99-3.10(3H, m), 3.45(3H, s), 3.61-3.69(2H, m), 3.95(1H, dd, J=2.1, 10.3 Hz), 6.97(1H, s), 7.19(2H, t, J=8.8 Hz), 7.48-7.56(2H, m), 8.17(1H, dd, J=1.0, 5.0 Hz), 8.99(1H, d, J=5.1 Hz), 9.29(1H, d, J=1.0 Hz)(DMSO-d6)	367
YA0264 (HCI)	3.39-3.47(2H, m), 3.45(3H, s), 3.55-3.66(2H, m), 3.86-3.96(2H, m), 4.64-4.71(1H, m), 7.05(1H, s), 7.36(2H, t, J=8.7 Hz), 7.77-7.81(2H, m), 8.23(1H, dd, J=1.2, 5.1 Hz), 9.02(1H, d, J=5.1 Hz), 9.32(1H, d, J=1.2 Hz), 9.79(1H, d, J=10.2 Hz), 10.13-10.28(1H, m)(DMSO-d6)	
YA0267	(CDCl3):2.81(1H,dd,J=10.5,12.6Hz), 3.15-3.40(3H,m), 3.50-3.65(4H,m),3.65-3.80(1H,m), 4.51(1H,dd,J=2.7,10.5Hz), 7.20-7.45(4H,m), 7.74(1H,dd,J=1.5,7.5Hz), 8.15-8.20(1H,m), 8.85(1H,d,J=5.1Hz), 9.27(1H s)	383
YA0268	(CDCl3):3.00(1H,dd,J=10.5,12.6Hz), 3.10-3.35(3H,m), 3.50-3.70(5H,m), 4.03(1H,dd,J=2.4,10.5Hz), 7.32(4H,m), 7.50(1H,s), 8.15(1H,dd,J=1.2,5.1Hz), 8.87(1H,d,J=5.1Hz), 9.27(1H,d,J=1.5Hz)	383
YA0269	3.40-3.50(2H, m), 3.45(3H, s), 3.53-3.65(2H, m), 3.87-3.97(2H, m), 4.68(1H, t, J=10.2 Hz), 7.05(1H, s), 7.59(2H, d, J=11.1 Hz), 7.75(2H, d, J=11.1 Hz), 8.22(1H, dd, J=1.5, 5.4 Hz), 9.02(1H, d, J=5.1 Hz), 9.31(1H, s), 9.83(1H, d, J=9.6 Hz), 10.11-10.25(1H, m)(DMSO-d6)	383
YA0274	(DMSO-d6):3.45(3H,s), 3.40-3.70(4H,m), 3.92(2H,t,J=14.1Hz), 4.67(1H,br s), 7.06(1H,s), 7.68(2H,d,J=10.0Hz), 7.72(2H,d,J=10.0Hz), 8.22(1H,d,J=4.8Hz), 9.03(1H,d,J=4.8Hz), 9.31(1H,s), 9.88(1H,br s), 10.22(1H,br s)	427
YA0289	3.36-3.57(4H, m), 3.35(3H,s), 3.89(3H,s), 3.91-3.97(2H, m), 4.84-4.94(1H, m), 7.06(1H, s), 7.08-7.15(1H, m), 7.18(1H, d, J=8.4 Hz), 7.41-7.49(1H, m), 7.68(1H, d, J=7.6 Hz), 8.25(1H, d, J=4.9 Hz), 9.04(1H, d, J=5.1 Hz), 9.32(1H, s)(DMSO)	379
YA0290	(DMSO-d6):3.40-3.75(7H,m), 3.92(2H,t,J=13.2Hz), 4.64(1H,t,J=9.1Hz), 7.00-7.10(2H,m), 7.23(1H,d,J=7.6Hz), 7.35(1H,s), 7.42(1H,t, J=7.8Hz), 8.23(1H,d,J=5.6Hz), 9.02(1H,d,J=5.2Hz), 9.32(1H,s), 9.65-9.80(1H,brd), 9.90-10.15(1H,brd).	379
YA0291	(DMSO-d6): 3.42(3H, s), 3.36-3.58(4H, m), 3.79(3H, s), 3.83-3.95(2H, m), 4.61(1H, m), 7.05(1H, s), 7.07(2H, d, J=8.1Hz), 7.60(2H, d, J=8.7Hz), 8.22(1H, dd, J=5.1, 1.2Hz), 9.02(1H, d, J=5.4Hz), 9.31(1H, s), 9.58-9.74(2H, m).	379

YA0294	1.31(3H, t, J=6.8 Hz), 3.44-3.59(2H, m), 3.48(3H, s), 3.87-3.97(2H, m), 4.09-4.20(2H, m), 4.80-4.91(1H, m), 7.06(1H, s), 7.09-7.17(2H, m), 7.44(1H, t, J=7.4 Hz), 7.64(1H, d, J=7.5 Hz), 8.23(1H, d, J=5.3 Hz), 9.03(1H, d, J=5.2 Hz), 9.32(1H, s), 9.49-9.60(2H, m)(DMSO-d6)	1
YA0304	(DM30-d0):3.45(3H,s), 3.64(3H,m), 3.93(3H,m), 4.78(1H,t,J=9.6Hz), 7.13(1H,s), 7.97(2H,d,J=8.7Hz), 8.01(2H,d,J=8.7Hz), 8.43(2H,d,J=6.2Hz), 8.93(2H,d,J=6.2Hz), 10.12(1H,s), 10.70(1H,s).	374
YA0331	(CDCl3):2.00(4H,m), 3.05(1H,t,J=11.7Hz), 3.18-3.30(3H,m), 3.29(4H,m), 3.56(3H,s), 3.62(2H,m), 3.91(1H,d,J=8.4Hz), 6.57(2H,d,J=8.7Hz), 7.31(3H,m), 8.17(1H,dd,J=1.2,5.1Hz), 8.85(1H,d,J=5.1Hz), 9.27(1H,d,J=1.2Hz).	418
YA0337	(CDCl3):3.02(1H,dd,J=10.8,12.6Hz), 3.18(8H,m), 3.56(3H,s), 3.61(1H,t,J=9.0Hz), 3.87(4H,m), 3.95(1H,dd,J=2.7,10.8Hz), 6.93(2H,d,J=8.9Hz), 7.31(1H,s), 7.36(2H,d,J=8.9Hz), 8.16(1H,dd,J=1.5,5.4Hz), 8.85(1H,d,J=5.4Hz), 9.27(1H,d,J=1.5Hz).	434
YA0340	(CDCl3):2.36(3H,s), 2.59(4H,m), 3.02(1H,t,J=11.4Hz), 3.16-3.29(7H,m), 3.26(3H,s), 3.61(2H,m), 3.94(1H,d,J=8.0Hz), 6.94(2H,d,J=8.7Hz), 7.31(1H,s), 7.34(2H,d,J=8.7Hz), 8.16(1H,d,J=5.1Hz), 8.85(1H,d,J=5.1Hz), 9.27(1H,s)	447
YA0361	3.39-3.50(2H, m), 3.47(3H, s), 3.61-3.73(1H, m), 3.78(3H, s), 3.83(3H, s), 3.87-3.92(3H, m), 4.92(1H, t, J=10.5 Hz), 6.99-7.11(3H, m), 7.57(1H, d, J=2.7 Hz), 8.25(1H, dd, J=1.2, 5.1 Hz), 9.03(1H, d, J=4.8 Hz), 9.31(1H, d, J=0.9 Hz), 9.78(1H, d, J=9.0 Hz), 10.21-10.38(1H, m)(DMSO-d6)	409
YA0362	(DMSO-d6): 3.47(3H, s), 3.37-4.04(6H, m), 3.94(6H, s), 5.09(1H, m), 6.82(2H, d, J=8.4Hz), 7.05(1H, s), 7.45(1H, t, J=8.4Hz), 8.22(1H, m), 8.24(1H, dd, J=5.4, 1.5Hz), 9.05(1H, d, J=5.1Hz), 9.32(1H, s), 10.06(1H, m).	409
YA0366	3.90(3H, s), 4.86-4.92(1H, m), 6.96-7.01(1H, m), 7.06(1H, s), 7.12(1H, d, J=8.8 Hz), 7:71-7.79(1H, m), 8.23-8.24(1H, m), 9.03(1H, d, J=5.1 Hz), 9.32(1H, d, J=1.2 Hz), 9.55-9.72(2H, m)/PMSC)	397
YA0367/ YA0368	(DMSO-d6):3.30-3.75(7H,m), 3.80-4.00(5H,m), 4.80-5.00(1H,m), 6.93-7.00(1H,m), 7.05(1H,s), 7.11(1H,dd,J=2.4,11.4Hz), 7.84(1H,m), 8.23(1H,d,J=5.1Hz), 9.03(1H,d,J=5.1Hz), 9.31(1H,s), 9.60-9.80(1H,brd), 9.90-10.15(1H,brd).	397

YA0378 3.31-3.56(3H, m), 3.45(3H, s), 3.69-3.78(1H, m), 3.90-3.99(2H, m), 3.94(3H, s), 4.95-5.03(1H, m), 6.96-7.02(1H, m), 7.03-7.09(2H, m), 7.49-7.56(1H, m), 8.24(1H, d, J=4.4 Hz), 8.51-8.69(1H, m), 9.03(1H, d, J=5.1 Hz), 9.32(1H, s), 10.55-10.67(1H, m) (DMSO) 2.77(1H, dd, J=10.5, 12.0 Hz), 3.18-3.30(3H, m), 3.61(3H, s), 3.64-3.71(2H, m), 3.86(3H, s), 4.37(1H, dd, J=2.1, 10.1 Hz), 6.89(1H, d, J=1.7 Hz), 6.99(1H, dd, J=1.6, 8.2 Hz), 7.32(1H, s), 7.50(1H, d, J=8.2 Hz), 8.19(1H, d, J=5.2 Hz), 8.86(1H, d, J=5.2 Hz), 9.27(1H, s)(CDCI3) (CDCI3):2.76(1H,dd,J=10.2,12.3Hz), 3.10-3.40(3H,m), 3.55-3.80(5H,m), 3.85(3H,s), 4.39(1H,dd,J=2.4.40.1H, d), 3.55-3.80(5H,m), 3.85(3H,s),	397 413
YA0370 6.96-7.02(1H, m), 7.03-7.09(2H, m), 7.49-7.56(1H, m), 8.24(1H, d, J=4.4 Hz), 8.51-8.69(1H, m), 9.03(1H, d, J=5.1 Hz), 9.32(1H, s), 10.55-10.67(1H, m) (DMSO) 2.77(1H, dd, J=10.5, 12.0 Hz), 3.18-3.30(3H, m), 3.61(3H, s), 3.64-3.71(2H, m), 3.86(3H, s), 4.37(1H, dd, J=2.1, 10.1 Hz), 6.89(1H, d, J=1.7 Hz), 6.99(1H, dd, J=1.6, 8.2 Hz), 7.32(1H, s), 7.50(1H, d, J=8.2 Hz), 8.19(1H, d, J=5.2 Hz), 8.86(1H, d, J=5.2 Hz), 9.27(1H, s)(CDCl3) (CDCl3):2.76(1H,dd,J=10.2,12.3Hz), 3.10-3.40(3H,m), 3.55-3.80(5H,m), 2.05(6H,m), 2.05(6H,m), 2.05(6H,m), 3.55-3.80(5H,m), 2.05(6H,m), 3.55-3.80(5H,m), 2.05(6H,m), 2.05(6H,m), 3.55-3.80(5H,m), 3.05(6H,m), 3.05(6H	
YA0370 7.49-7.56(1H, m), 8.24(1H, d, J=4.4 Hz), 8.51-8.69(1H, m), 9.03(1H, d, J=5.1 Hz), 9.32(1H, s), 10.55-10.67(1H, m) (DMSO) 2.77(1H, dd, J=10.5, 12.0 Hz), 3.18-3.30(3H, m), 3.61(3H, s), 3.64-3.71(2H, m), 3.86(3H, s), 4.37(1H, dd, J=2.1, 10.1 Hz), 6.89(1H, d, J=1.7 Hz), 6.99(1H, dd, J=1.6, 8.2 Hz), 7.32(1H, s), 7.50(1H, d, J=8.2 Hz), 8.19(1H, d, J=5.2 Hz), 8.86(1H, d, J=5.2 Hz), 9.27(1H, s)(CDCI3) (CDCI3):2.76(1H,dd,J=10.2,12.3Hz), 3.10-3.40(3H,m), 3.55-3.80(5H,m), 2.05(6H,m), 2.05(6H,m), 3.10-3.40(3H,m), 3.55-3.80(5H,m), 2.05(6H,m), 3.10-3.40(3H,m), 3.55-3.80(5H,m), 2.05(6H,m), 3.10-3.40(3H,m), 3.55-3.80(5H,m), 3.05(6H,m), 3.05	
YA0378	
YA0378 413	
YA0378 YA0378 2.77(1H, dd, J=10.5, 12.0 Hz), 3.18-3.30(3H, m), 3.61(3H, s), 3.64-3.71(2H, m), 3.86(3H, s), 4.37(1H, dd, J=2.1, 10.1 Hz), 6.89(1H, d, J=1.7 Hz), 6.99(1H, dd, J=1.6, 8.2 Hz), 7.32(1H, s), 7.50(1H, d, J=8.2 Hz), 8.19(1H, d, J=5.2 Hz), 8.86(1H, d, J=5.2 Hz), 9.27(1H, s)(CDCl3) (CDCl3):2.76(1H,dd,J=10.2,12.3Hz), 3.10-3.40(3H,m), 3.55-3.80(5H,m), 2.05(6H,m), 3.55-3.80(5H,m), 3.05(6H,m),	413
YA0378 YA0378 YA0378 YA0378	413
YA0378 4.37(1H, dd, J=2.1, 10.1 Hz), 6.89(1H, d, J=1.7 Hz), 6.99(1H, dd, J=1.6, 8.2 Hz), 7.32(1H, s), 7.50(1H, d, J=8.2 Hz), 8.19(1H, d, J=5.2 Hz), 8.86(1H, d, J=5.2 Hz), 9.27(1H, s)(CDCl3) (CDCl3):2.76(1H,dd,J=10.2,12.3Hz), 3.10-3.40(3H,m) 3.55-3.80(5H,m) 2.05(0H,m)	413
YA0378 Hz), 6.99(1H, dd, J=1.6, 8.2 Hz), 7.32(1H, s), 7.50(1H, d, J=8.2 Hz), 8.19(1H, d, J=5.2 Hz), 8.86(1H, d, J=5.2 Hz), 9.27(1H, s)(CDCl3) (CDCl3) :2.76(1H,dd,J=10.2,12.3Hz), 3.10-3.40(3H,m) 3.55-3.80(5H,m) 2.05(6H,m)	413
7.50(1H, dd, J=1.6, 8.2 Hz), 7.32(1H, s), 7.50(1H, d, J=8.2 Hz), 8.19(1H, d, J=5.2 Hz), 8.86(1H, d, J=5.2 Hz), 9.27(1H, s)(CDCl3) (CDCl3) :2.76(1H,dd,J=10.2,12.3Hz), 3.10-3.40(3H,m) 3.55-3.80(5H,m) 2.05(4H,m)	413
8.86(1H, d, J=5.2 Hz), 9.27(1H, d, J=5.2 Hz), (CDCl3):2.76(1H,dd,J=10.2,12.3Hz), 3.10-3.40(3H,m):3.55-3.80(5H,m):0.05(4H,m)	
(CDCl3) :2.76(1H,dd,J=10.2,12.3Hz), 3.10-3.40(3H,m) 3.55-3.80(5H,m) 0.05(0H,m)	
3.10-3.40(3H _m) 3.55-3.80(5H _m) 0.05(0H _m)	
/ 30/1L dd L 0 4 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1	
YANZOO 1997(111,001,072,4,111,789) 6,70/411 2 6 6 7 7	1
7.32(1H.s), 7.39(1H dd 1=2.7.9.711.)	457
'''' 4\' 17.9.3 = 2.4 Hz\ 8 20/1 da a o c a c	
(UUU), 1.30-7 U.3(4H m) 2 04/411	
3.17-3.32(7H, m), 3.60(3H, s), 3.59-3.71(2H, m), 3.85(3H, s), 4.28(1H, d), 3.59-3.71(2H, m),	
3.85(3H s) 4.28(1H d 2.4H) 3.59-3.71(2H, m),	
YA0408 3.85(3H, s), 4.28(1H, d, 8.4Hz), 6.10(1H, d,	448
J=1.8Hz), 6.18(1H, d, J=8.3Hz), 6.10(1H, d, 7.33(1H, d, J=8.4Hz), 9.24(4Hz), 7.29(1H, s),	440
1 ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	
8.85(1H, d, J=5.2Hz), 9.27(1H, s).	
(CDCl3):1.95-2.10(4H,m), 2.95-3.10(1H,m),	
1 0 10 0 10 10 10 10 10 10 10 10 10 10 1	
YADADU ***********************************	
U.45(\ID,UQ,J=3,U.8,9Hz) 6.63_6.87/2U\	448
1 1 1 2 4 1 1 1 3 1 0 2 2 2 1 1 H AA JE1 A E 2 2 2 1	
0.00(2H,0,J=5.2Hz) 9.27(1H d l=1.1U=)	
1 (900) 3.14(7H M) 3 99/4U 4 1=44 01 1 1 =	
1 2 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
ΥΔΠΑΊΑ Ι ³¹³ 3(31131, Τ.JOLID DD 153 1 11 DD 1	
(0.51(2H,III), 7.32(1H s)	415
8.19(1H,dd,J=1.5.5.3Hz)	
	ľ
(DMSO-d6):3.35-3.70(4H m) 3.48(3H -)	
3.78(3H,s), 3.97(2H,m), 4.70(1H,m),	
7.06(1H,t,J=7.7Hz), 7.07(1H,s),	l
1/10443 / 15(1H,d,J=7.7Hz) 7/31/44 a 1=2 21=3	
	455
7.39(1H,t,J=7.7Hz) $7.61(2H,d,J=9.4Hz)$	
7.70(2H,d, J=8.1Hz), 8.25(4H,d, J=8.1Hz),	
7.70(2H,d,J=8.1Hz), 8.25(4Ld,J=8.1Hz),	
7.70(2H,d,J=8.1Hz), 7.61(2H,d,J=8.1Hz), 7.70(2H,d,J=8.1Hz), 8.25(1H,d,J=4.5Hz), 9.07(1H,d,J=4.5Hz), 9.33(1H,a), 0.00(4);	
7.70(2H,d,J=8.1Hz), 7.61(2H,d,J=8.1Hz), 7.70(2H,d,J=8.1Hz), 8.25(1H,d,J=4.5Hz), 9.07(1H,d,J=4.5Hz), 9.33(1H,s), 9.66(1H,br s). (DMSO-d6):3.61(3H,m), 3.76(3H,s), 2.84(2H,s)	
7.70(2H,d,J=8.1Hz), 7.61(2H,d,J=8.1Hz), 7.70(2H,d,J=8.1Hz), 8.25(1H,d,J=4.5Hz), 9.07(1H,d,J=4.5Hz), 9.33(1H,s), 9.66(1H,br s). (DMSO-d6):3.61(3H,m), 3.76(3H,s), 3.81(3H,s), 4.01(3H,m), 4.69(1H t 1=9.0Hz).	
7.70(2H,d,J=8.1Hz), 7.61(2H,d,J=8.1Hz), 7.70(2H,d,J=8.1Hz), 8.25(1H,d,J=4.5Hz), 9.07(1H,d,J=4.5Hz), 9.33(1H,s), 9.66(1H,br s). (DMSO-d6):3.61(3H,m), 3.76(3H,s), 3.81(3H,s), 4.01(3H,m), 4.69(1H,t,J=9.9Hz), 7.05(2H,d,J=9.0Hz), 7.07(1H s)	
7.70(2H,d,J=8.1Hz), 7.61(2H,d,J=8.1Hz), 7.70(2H,d,J=8.1Hz), 8.25(1H,d,J=4.5Hz), 9.07(1H,d,J=4.5Hz), 9.33(1H,s), 9.66(1H,br s). (DMSO-d6):3.61(3H,m), 3.76(3H,s), 3.81(3H,s), 4.01(3H,m), 4.69(1H,t,J=9.9Hz), 7.05(2H,d,J=9.0Hz), 7.07(1H,s), 7.67(2H,d,J=9.0Hz), 7.76(4H,s)	455
7.70(2H,d,J=8.1Hz), 8.25(1H,d,J=8.1Hz), 9.07(1H,d,J=4.5Hz), 9.07(1H,d,J=4.5Hz), 9.33(1H,s), 9.66(1H,br s). (DMSO-d6):3.61(3H,m), 3.76(3H,s), 3.81(3H,s), 4.01(3H,m), 4.69(1H,t,J=9.9Hz), 7.05(2H,d,J=9.0Hz), 7.07(1H,s), 7.67(2H,d,J=9.0Hz), 7.76(4H,s), 8.24(1H,dd,J=1.2.5.1Hz), 9.03(4H,d,J=5.4Hz), 8.24(1H,dd,J=1.2.5.1Hz), 9.03(4H,d,J=5.4Hz), 9.03(4	455
YA0425 7.70(2H,d,J=8.1Hz), 8.25(1H,d,J=8.1Hz), 9.07(1H,d,J=4.5Hz), 9.33(1H,s), 9.66(1H,br s). (DMSO-d6):3.61(3H,m), 3.76(3H,s), 3.81(3H,s), 4.01(3H,m), 4.69(1H,t,J=9.9Hz), 7.05(2H,d,J=9.0Hz), 7.07(1H,s), 7.67(2H,d,J=9.0Hz), 7.76(4H,s), 8.24(1H,dd,J=1.2,5.1Hz), 9.03(1H,d,J=5.1Hz), 9.32(1H,d,J=1.2Hz), 9.79(1H,d,J=10.2Hz),	455
YA0425 YA0425 YA0425 YA0425 YA0425 YA0425 YA0426 YA0427 YA0426 YA0426 YA0427 YA0426 YA0427 YA0427 YA0427 YA0428 YA0426 YA0426 YA0426 YA0427 YA0426 YA0427 YA0427 YA0427 YA0427 YA0427 YA0428 455	
YA0425 YA0425 YA0425 YA0425 YA0425 YA0426 455	
YA0425 YA0425 YA0425 YA0425 YA0425 YA0425 YA0426 455	
YA0434 7.70(2H,d,J=8.1Hz), 8.25(1H,d,J=8.1Hz), 7.70(2H,d,J=8.1Hz), 8.25(1H,d,J=4.5Hz), 9.07(1H,d,J=4.5Hz), 9.33(1H,s), 9.66(1H,br s). (DMSO-d6):3.61(3H,m), 3.76(3H,s), 3.81(3H,s), 4.01(3H,m), 4.69(1H,t,J=9.9Hz), 7.05(2H,d,J=9.0Hz), 7.07(1H,s), 7.67(2H,d,J=9.0Hz), 7.76(4H,s), 8.24(1H,dd,J=1.2,5.1Hz), 9.03(1H,d,J=5.1Hz), 9.32(1H,d,J=1.2Hz), 9.79(1H,d,J=10.2Hz), 10.07(1H,s). (DMSO-d6):3.30-3.70(4H,m), 3.42(3H,s), 3.96(2H,d,J=13.8Hz), 4.71(1H,t,J=11.3Hz), 7.06(1H,s), 7.33(2H,t,J=8.0Hz), 7.77(4H,t), 1.21(1.3Hz), 7.06(1H,s), 7.33(2H,t,J=8.0Hz), 7.77(4H,t), 1.21(1.3Hz), 7.06(1H,s), 7.33(2H,t,J=8.0Hz), 7.77(4H,t), 1.21(1.3Hz), 7.06(1H,s), 7.33(2H,t,J=8.0Hz), 7.77(4H,t), 1.21(1.3Hz), 7.77(4H,t	
YA0434 7.70(2H,d,J=8.1Hz), 8.25(1H,d,J=8.1Hz), 9.07(1H,d,J=4.5Hz), 9.33(1H,s), 9.66(1H,br s). (DMSO-d6):3.61(3H,m), 3.76(3H,s), 3.81(3H,s), 4.01(3H,m), 4.69(1H,t,J=9.9Hz), 7.05(2H,d,J=9.0Hz), 7.07(1H,s), 7.67(2H,d,J=9.0Hz), 7.76(4H,s), 8.24(1H,dd,J=1.2,5.1Hz), 9.03(1H,d,J=5.1Hz), 9.32(1H,d,J=1.2Hz), 9.79(1H,d,J=10.2Hz), 10.07(1H,s). (DMSO-d6):3.30-3.70(4H,m), 3.42(3H,s), 3.96(2H,d,J=13.8Hz), 4.71(1H,t,J=11.3Hz), 7.06(1H,s), 7.33(2H,t,J=8.0Hz), 7.77(4H,t), 3.77(4H,t),	455

	10.40.0.50/01/	
YA0442	3.43-3.59(2H, m), 3.48(3H, s), 3.63-3.75(2H, m), 3.97-4.01(2H, m), 4.80-4.86(1H, m), 7.06(1H, s), 7.60-7.64(2H, m), 7.86-7.88(1H, m), 7.95-8.00(2H, m), 8.05-8.07(1H, m), 8.24-8.27(2H, m), 9.02(1H, d, J=5.4 Hz), 9.32(1H, s), 10.01(1H, d, J=10.2 Hz), 10.30-10.41(1H, m)(DMSO-d6)	399
YA0517	(CDCl3): 2.97(1H, dd, J=12.3, 10.5Hz), 3.18-3.28(5H, m), 3.58(3H, s), 3.59(1H, m), 3.77(1H, m), 4.27(1H, dd, 10.2, 2.7Hz), 4.62(2H, m), 6.89(1H, t, J=7.5Hz), 7.16(1H, m), 7.27(1H, m), 7.28(1H, s), 8.26(1H, dd, J=5.4, 1.5Hz), 8.86(1H, d, J=5.4Hz), 9.26(1H, s)	391
YA0864	(DMSO-d6):3.15-3.35(1H,m), 3.38-3.50(4H,m), 3.70-4.30(9H,m), 5.00-5.20(1H,m), 7.00-7.10(2H,m), 7.10-7.20(1H,m), 7.30-7.50(6H,m), 8.15-8.20(1H,m), 8.30-8.40(1H,brd), 9.05(1H,d,J=5.1Hz), 9.31(1H,d,J=0.9Hz).	487
YA1074	(CDCl3):1.80-2.40(3H, m), 3.12-3.34(4H, m), 3.39-4.20(7.6H, m), 4.50-5.07(0.6H, m), 5.30-5.60(0.7H, m), 5.72-6.05(0.1H, m), 6.52-6.80(2H, m), 6.82-7.22(1H, m), 7.28(1H, s), 8.18(1H, d,J=4.8Hz), 8.89(1H, d,J=5.1Hz), 9.28(1H, d,J=1.2Hz)	439
YA1339	(CDCl3):2.50-2.62(1H,m), 2.80-2.95(1H,m), 3.02-3.20(1H,m), 3.25-3.40(1H,m), 3.50-3.74(5H,m), 3.75-3.80(1H,m), 3.85(3H,s), 6.60-6.80(2H,m), 7.30(1H,s), 7.48(1H,t,J=8.4Hz), 8.19(1H,dd,J=1.2,5.1Hz), 8.86(1H,d,J=5.1Hz), 9.27(1H,d,J=1.5Hz).	411
YA1340/ YA1341	(DMSO-db) :2.55(3H,d,J=3.9Hz), 3.40-3.80(3H,m), 3.45(3H,s), 3.80-4.15(6H,m), 4.85-5.15(1H,m), 6.90-7.05(1H,m), 7.05(1H,s), 7.13(1H,dd,J=2.4,11.4Hz), 8.21(1H,dd,J=1.2,5.1Hz), 9.04(1H,d,J=5.1Hz), 9.31(1H,d,J=1.2Hz), 11.50-12 20(1H brd)	411
YA1534	2.90-3.10 (1H, m), 3.15-3.35 (3H, m), 3.50-3.70 (5H, m), 3.80-4.05 (7H, m), 6.87 (1H, d, J = 8.1 Hz), 6.90-7.10 (2H, m), 7.31 (1H, s), 8.16 (1H, d, J = 4.6 Hz), 8.85 (1H, d, J = 5.0 Hz), 9.27 (1H, s) (CDCI3)	408
YA1535	3.45 (3H, s), 3.46 (2H, m), 3.64 (m, 2H), 3.91 (2H, t, J = 16.1 Hz), 4.68 (1H, t, J = 10.5 Hz), 7.05 (1H, s), 7.59 (2H, d, J = 8.4 Hz), 7.79 (2H, d, J = 8.4 Hz), 8.23 (1H, dd, J = 5.1, 1.2 Hz), 9.02 (1H, d, J = 5.1 Hz), 9.31 (1H, d, J = 1.2 Hz), 10.00 (1H, d, J = 8.7 Hz), 10.49 (1H, br s) (DMSO-6)	383
YA1536	3.45 (3H, s), 3.46 (2H, m), 3.64 (m, 2H), 3.91 (2H, t, J = 16.1 Hz), 4.68 (1H, t, J = 10.5 Hz), 7.05 (1H, s), 7.59 (2H, d, J = 8.4 Hz), 7.79 (2H, d, J = 8.4 Hz), 8.23 (1H, dd, J = 5.1, 1.2 Hz), 9.02 (1H, d, J = 5.1 Hz), 9.31 (1H, d, J = 1.2 Hz), 10.00 (1H, d, J = 8.7 Hz), 10.49 (1H, br s) (DMSO-6)	383

	0.00/01	
YA1537	2.39(3H, s), 2.60(4H, t, J=4.6Hz), 3.37(4H, t, J=4.8Hz), 3.53(3H, s), 7.27(1H, s), 8.18(1H, dd, J=1.2, 5.4Hz), 8.87(1H, d, J=5.1Hz), 9.28(1H, s)(CDCI3)	286
YA1538	2.64-2.74(1H, br.s), 2.66(2H, t, J=5.3Hz), 2.73(4H, t, J=4.4Hz), 3.39(4H, t, J=4.0Hz), 3.54(3H, s), 3.69-3.70(2H, m), 7.26(1H, s), 8.18(1H, d, J=5.0Hz), 8.88(1H, t, J=5.0Hz), 9.28(1H, s)(CDCI3)	316
YA1539	1.10(6H, t, J=6.6Hz), 2.71(4H, t, J=4.9Hz), 2.77(1H, m), 3.36(4H, t, J=4.9Hz), 3.54(3H, s), 7.27(1H, s), 8.18(1H, dd, J=1.1, 5.2Hz), 8.87(2H, d, J=5.1Hz), 9.27(1H, s)(CDCl3)	314
YA1540	1.15(6H, d, J=6.2Hz), 1.50(1H, br.s), 2.61(2H, dd, J=1.6, 12.4Hz), 3.06-3.16(2H, m), 3.49(2H, d, J=13.0Hz), 3.52(3H, s), 7.27(1H, s), 8.16(1H, dd, J=1.3, 5.0Hz), 8.88(1H, d, J=5.0Hz), 9.27(1H, d, J=1.3Hz)(CDCI3)	300
YA1541	2.98 (1H, t, J = 11.5 Hz), 3.20 (3H, m), 3.57 (3H, s), 3.58 (2H, m), 4.02 (1H, dd, J = 10.5, 2.2 Hz), 7.27 (1H, s), 7.29 (1H, d, J = 8.3 Hz), 7.46 (1H, d, J = 8.3 Hz), 7.61 (1H, s), 8.13 (1H, d, J = 5.2 Hz), 8.86 (1H, d, J = 5.2 Hz), 9.27 (1H, s) (CDCI3)	417
YA1542	3.44(3H, s), 3.62-3.73(2H, m), 3.86-3.93(2H, m), 4.66(1H, m), 7.05(1H, s), 7.45(1H, dd, J=8.4, 8.4Hz), 7.67(1H, d, J=8.4Hz), 7.81(1H, d, J=8.4Hz), 8.04(1H, s), 8.25(1H, dd, J=5.4, 1.5Hz), 9.02(1H, d, J=5.4 Hz), 8.18(1H, dd, J=5.4, 1.2 Hz), 8.99(1H, d, J=5.1 Hz), 9.32(1H, d, J=1.5 Hz), 10.13(1H, m), 10.67(1H, m) (DMSO)	427
YA1543	(1H, dd, J = 13.5, 8.9 Hz), 3.47 (3H, s), 3.79 (1H, dd, J = 13.5, 3.9 Hz), 4.73 (1H, d, J = 17.1 Hz), 4.22 (1H, d, J = 17.1 Hz), 4.82 (1H, dd, J = 8.9, 3.9 Hz), 6.08 (1H, s), 7.31 (2H, d, J = 8.4 Hz), 7.42 (2H, d, J = 8.4 Hz), 8.14 (1H, d, J = 5.1, 1.5 Hz), 8.90 (1H, d, J = 5.1 Hz), 9.29 (1H, d, J = 1.5 Hz) (CDCI3)	397
YA1544	1.97 (4H, m), 3.26 (4H, m), 3.39 (2H, m), 3.44 (3H, s), 3.60 (2H, m), 3.79 (1H, d, J = 13.5 Hz), 3.91 (1H, d, J = 13.8 Hz), 4.48 (1H, t, J = 10.1 Hz), 6.66 (2H, d, J = 8.4 Hz), 7.04 (1H, s), 7.51 (2H, d, J = 8.4 Hz), 8.21 (1H, d, J = 5.1 Hz), 9.02 (1H, d, J = 5.1 Hz), 9.31 (1H, s), 9.70 (1H, d, J = 10.8 Hz), 10.07 (1H, br s) (DMSO-d6)	418
YA1545	3.21 (4H, m), 3.42 (2H, m), 3.44 (3H, s), 3.62 (2H, m), 3.79 (4H, m), 3.90 (2H, t, J = 14.6 Hz), 4.54 (1H, t, J = 10.5 Hz), 7.05 (1H, s), 7.13 (2H, d, J = 8.7 Hz), 7.62 (2H, d, J = 8.7 Hz), 8.22 (1H, d, J = 4.8 Hz), 9.02 (1H, d, J = 4.8 Hz), 9.31 (1H, s), 9.80 (1H, d, J = 9.3 Hz), 10.23 (1H, br s) (DMSO-d6)	434

	0.00 (011 1 1 1 5 5 1 1	
YA1546	2.80 (3H, d, J = 4.5 Hz), 3.26 (4H, m), 3.44 (3H, s), 3.45 (4H, m), 3.60 (2H, m), 3.80 (1H, d, J = 3.5 Hz), 3.90 (3H, m), 4.54 (1H, t, J = 10.5 Hz), 7.04 (1H, s), 7.10 (2H, d, J = 8.7 Hz), 7.62 (2H, d, J = 8.7 Hz), 8.20 (1H, dd, J = 5.1, 1.2 Hz), 9.02 (1H, d, J = 5.1 Hz), 9.32 (1H, d, J = 1.2 Hz), 9.86 (1H, d, J = 10.2 Hz), 10.33 (1H, br s), 11.15 (1H, br s) (DMSO-d6)	447
YA1547	2.28(3H, s), 3.07(4H, t, J=4.7Hz), 3.37(4H, t, J=4.8Hz), 3.75(3H, s), 5.76(1H, s), 7.26-7.33(2H, m), 7.45(2H, dd, J=7.8, 7.8Hz), 7.79(2H, d, J=7.8Hz), 8.14(1H, d, J=5.4Hz), 8.87(1H, dd, J=7.8, 7.8Hz), 9.28(1H, d, J=1.2Hz)(CDCl3)	428
YA1548	2.37 (1H, m), 2.43 (1H, m), 2.80 (3H, d, J = 5.2 Hz), 2.81 (3H, d, J = 5.2 Hz), 3.28 (1H, q, J = 8.8 Hz), 3.40 (2H, m), 3.44 (3H, s), 3.57 (5H, m), 3.79 (1H, d, J = 11.4 Hz), 3.97 (2H, m), 4.50 (1H, t, J = 10.0 Hz), 6.69 (2H, d, J = 8.4 Hz), 7.05 (1H, s), 7.54 (2H, d, J = 8.4 Hz), 8.20 (1H, dd, J = 4.8, 1.2 Hz), 9.03 (1H, d, J = 4.8 Hz), 9.32 (1H, d, J = 1.2 Hz), 9.71 (1H, br s), 10.06 (1H, br s), 11.35 (1H, br s) (DMSO-d6)	461
YA1549	2.33 (1H, m), 2.41 (1H, m), 2.79 (3H, d, J = 4.8 Hz), 2.81 (3H, d, J = 4.8 Hz), 3.28 (1H, d, J = 8.4 Hz), 3.39 (2H, m), 3.44 (3H, s), 3.57 (5H, m), 3.79 (1H, d, J = 13.3 Hz), 3.97 (2H, m), 4.50 (1H, t, J = 11.6 Hz), 6.69 (2H, d, J = 8.4 Hz), 7.04 (1H, s), 7.55 (2H, d, J = 8.4 Hz), 8.21 (2H, d, J = 5.2 Hz), 9.02 (2H, d, J = 5.2 Hz), 9.32 (1H, s), 9.75 (1H, br s), 10.14 (1H, br s), 11.45 (1H, br s) (DMSO-d6)	461
YA1550	s), 3.94 (2H, m), 4.68 (1H, m), 7.05 (2H, d, J = 8.6 Hz), 7.06 (1H, s), 7.67 (2H, d, J = 8.6 Hz), 7.76 (4H, s), 8.25 (1H, d, J = 5.0 Hz), 9.03 (1H, d, J = 5.0 Hz), 9.32 (1H, s) (DMSO-d6)	455
YA1551	1.18 (1H, m), 1.40 (4H, m), 1.70 (1H, m), 1.80 (4H, m), 2.55 (1H, m), 3.43 (2H, m), 3.45 (3H, s), 3.60 (2H, m), 3.91 (2H, m), 4.60 (1H, t, J = 10.8 Hz), 7.05 (1H, s), 7.35 (2H, d, J = 8.0 Hz), 7.64 (2H, d, J = 8.0 Hz), 9.03 (1H, d, J = 4.8 Hz), 9.31 (1H, s), 9.80 (1H, d, J = 8.8 Hz), 10.24 (1H, m) (DMSO-d6)	431
YA1552	3.02(4H, m), 3.23(4H, m), 3.49(3H, s), 7.08-7.67(10H, m), 8.15(1H, d, J=5.1Hz), 8.87(1H, d, J=5.1Hz), 9.27(1H, s)(CDCI3)	424
YA1553	2.90 (1H, dd, J = 13.2, 9.6 Hz), 3.16 (2H, m), 3.24 (1H, d, 14.4 Hz), 3.31 (3H, s), 3.34 (1H, d, J = 13.6 Hz), 3.47 (1H, t, J = 13.2 Hz), 3.80 (3H, m), 6.97 (1H, s), 7.38 (2H, m), 7.45 (3H, m), 7.64 (1H, dd, J = 5.2, 1.2 Hz), 8.94 (1H, d, J = 5.2 Hz), 9.28 (1H, d, J = 1.2 Hz), 9.54 (1H, br s), 9.78 (1H, br s) (DMSO-d6)	363

YA1554	2.95 (1H, m), 3.29-3.05 (3H, m), 3.34 (3H, s), 3.35 (1H, m), 3.44 (1H, t, J = 12.4 Hz), 3.79 (3H, m), 6.99 (1H, s), 7.40 (2H, d, J = 8.4 Hz), 7.51 (2H, d, J = 8.4 Hz), 7.76 (1H, dd, J = 4.8, 1.2 Hz), 8.96 (1H, d, J = 4.8 Hz), 9.29 (1H, d, J = 1.2 Hz), 9.38 (1H, br s), 9.71 (1H, br s) (DMSO-d6)	397
YA1555	1.05 (2H, brs), 1.90 (4H, brs), 3.44 (6H, m), 3.45 (3H, s), 3.61 (2H, m), 3.88 (1H, d, J = 13.6 Hz), 3.94 (1H, d, J = 13.6 Hz), 4.66 (1H, t, J = 8.8 Hz), 7.05 (1H, s), 7.82 (4H, brs), 8.23 (1H, dd, J = 5.2, 1.2 Hz), 9.02 (1H, d, J = 5.2 Hz), 9.31 (1H, d, J = 1.2 Hz), 9.89 (1H, br s), 10.37 (1H, br s) (DMSO-d6)	432
YA1556	3.42 (2H, m), 3.45 (3H, s), 3.56 (2H, m), 3.85 (1H, d, J = 13.2 Hz), 3.93 (1H, d, J = 14.0 Hz), 4.55 (1H, t, J = 10.8 Hz), 6.94 (1H, br s), 7.05 (1H, s), 7.15 (4H, br s), 7.31 (2H, br s), 7.57 (2H, br s), 8.22 (1H, d, J = 4.8 Hz), 9.03 (1H, d, J = 4.8 Hz), 9.32 (1H, s), 9.66 (1H, br s), 9.90 (1H, br s) (DMSO-d6)	509
YA1557	1.40 (1H, m), 1.78 (8H, m), 2.18 (2H, d, J = 11.2 Hz), 2.78 (2H, m), 2.91 (2H, m), 3.30 (1H, m), 3.40 (3H, m), 3.44 (3H, s), 3.58 (2H, m), 3.82 (1H, d, J = 13.3 Hz), 3.93 (3H, m), 4.53 (1H, m), 7.05 (1H, s), 7.11 (2H, d, J = 8.8 Hz), 7.57 (2H, d, J = 8.8 Hz), 8.21 (1H, d, J = 5.2 Hz), 9.02 (1H, d, J = 5.2 Hz), 9.32 (1H, s), 9.73 (1H, d, J = 8.4 Hz), 10.09 (1H, br s), 10.39 (1H, br s) (DMSO-d6)	515
YA1558	2.04-2.91(1H, m), 3.01-3.05(4H, m), 3.22(3H, s), 3.46(3H, s), 3.68-3.72(2H, m), 4.07-4.11(1H, m), 6.95(1H, s), 7.78(2H, d, J=7.2Hz), 7.93(2H, d, J=7.2Hz), 8.31(1H, d, J=4.2Hz), 8.99(1H, d, J=4.2Hz), 9.28(1H, s)(DMSO-d6)	427
YA1559	1.84 (4H, m), 1.97 (2H, m), 2.13 (2H, m), 2.79 (2H, t, J = 11.6 Hz), 3.04 (2H, m), 3.24 (1H, m), 3.40 (2H, m), 3.44 (3H, s), 3.59 (2H, m), 3.80 (1H, d, J = 14.0 Hz), 3.91 (3H, m), 4.53 (1H, t, J = 11.2 Hz), 7.05 (1H, s), 7.13 (2H, d, J = 8.4 Hz), 7.58 (2H, d, J = 8.4 Hz), 8.22 (1H, d, J = 5.2 Hz), 9.02 (1H, d, J = 5.2 Hz), 9.31 (1H, s), 9.75 (1H, d, J = 8.4 Hz), 10.10 (1H, br s), 11.04 (1H, br s)	501
YA1560	1.71(2H, m), 2.12(2H, m), 2.74(6H, d, J=4.8 Hz), 2.74-2.80(3H, m), 3.30-3.96(8H, m), 3.40(3H, s), 4.54(1H, m), 7.05(1H, s), 7.10(2H, d, J=9.0 Hz), 7.54(2H, d, J=9.0 Hz), 8.21(1H, dd, J=5.1, 1.2 Hz), 9.03(1H, d, J=5.4 Hz), 9.32(1H, s), 9.68(1H, m), 9.92(1H, m), 10.54(1H, m), (DMSO-d6)	475
YA1561	1.51(2H, m), 1.84(2H, m), 3.00-3.20(3H, m), 3.38(3H, s), 3.38-3.91(8H, m), 4.55(1H, m), 7.05(1H, s), 7.18(2H, d, J=9.0 Hz), 7.51(2H, d, J=9.0 Hz), 8.21(1H, d, J=6.0 Hz), 9.02(1H, d, J=5.1 Hz), 9.31(1H, s), 9.54-9.62(3H, m), (DMSO-d6)	448

YA1562	1.89-2.05(2H, m), 2.65-3.20(5H, m), 3.25-3.82(5H, m), 3.41(3H, s), 4.39(1H, m), 4.91(1H, m), 6.49(2H, d, J= 8.4 Hz), 6.96(1H, s), 7.25(2H, d, J=8.4 Hz), 8.18(1H, dd, J=4.2, 0.9 Hz), 8.99(1H, d, J=5.1 Hz), 9.28(1H, s), (DMSO-d6)	434
YA1563	1.06 (1H, m), 1.30 (2H, m), 1.43 (2H, m), 1.60 (2H, m), 1.79 (3H, m), 2.97 (3H, m), 3.45 (3H, s), 3.60 (2H, m), 3.80 (3H, s), 3.90 (2H, m), 4.63 (1H, m), 7.05 (1H, s), 7.70 (4H, br s), 8.23 (1H, d, J = 5.2 Hz), 9.03 (1H, d, J = 5.2 Hz), 9.32 (1H, s), 9.75 (1H, br s) (DMSO-d6)	460
YA1564	2.99 (6H, m), 3.44 (1H, m), 3.45 (3H, s), 3.57 (3H, m), 3.82 (1H, d, $J = 13.2 \text{ Hz}$), 4.92 (1H, d, $J = 14.4 \text{ Hz}$), 4.55 (1H, t, $J = 10.0 \text{ Hz}$), 7.05 (1H, s), 7.06 (2H, br s), 7.61 (2H, br s), 8.22 (1H, d, $J = 5.2 \text{ Hz}$), 9.03 (1H, d, $J = 5.2 \text{ Hz}$), 9.32 (1H, s), 9.73 (1H, br s), 10.11 (1H, br s) (DMSO-d6)	392
YA1565	3.20-3.22(4H, m), 3.44-3.89(15H, m), 4.51-4.55(1H, m), 5.11(2H, s), 7.04-7.07(3H, m), 7.35-7.39(5H, m), 7.53(2H, d, J=7.2Hz), 8.20(1H, d, J=4.2Hz), 9.01(1H, d, J=4.2Hz), 9.31(1H, s), 9.78-9.92(2H, br)(DMSO-d6)	567
YA1566	1.33(6H, d, J=6.8Hz), 3.02-3.55(13H, m), 3.89-3.93(5H, m), 4.52-4.55(1H, m), 6.99-7.13(3H, m), 7.60(2H, d, J=7.2Hz), 8.21(1H, d, J=4.2Hz), 9.02(1H, d, J=4.2Hz), 9.32(1H, s), 9.67-10.15(3H, br), 10.84-10.88(1H, br)(DMSO-d6)	475
YA1567	3.17-3.26(8H, m), 3.44-3.55(6H, m), 3.80-3.94(9H, m), 4.50-4.57(1H, m), 7.05-7.12(3H, m), 7.60(2H, d, J=7.2Hz), 8.21(1H, d, J=4.2Hz), 9.02(1H, d, J=4.2Hz), 9.32(1H, s), 9.77-9.80(1H, br), 10.16-10.20(1H, br), 10.49-10.52(1H, br)(DMSO-d6)	477
YA1568	3.18-3.24(3H, m), 3.40-3.59(13H, m), 4.02-4.06(2H, m), 4.51-4.55(1H, m), 7.03-7.11(3H, m), 7.52(2H, d, J=7.2Hz), 8.21(1H, d, J=4.2Hz), 9.02(1H, d, J=4.2Hz), 9.18-9.22(1H, br), 9.38(1H, s), 9.72-9.78(1H, br), 10.04-10.10(1H, br)(DMSO-d6)	433
YA1569	1.90-2.02(2H, m), 2.80-3.06(5H, m), 3.25-3.82(5H, m), 3.65(3H, s), 4.39(1H, m), 4.94(1H, m), 6.49(2H, d, J= 8.4 Hz), 6.96(1H, s), 7.25(2H, d, J=8.4 Hz), 8.16(1H, dd, J=5.4, 0.9 Hz), 8.99(1H, d, J=5.1 Hz), 9.29(1H, s) (DMSO-d6)	434
YA1570	1.15(6H, d, J= 6.3 Hz), 2.31(2H, dd, J= 11.1 Hz), 2.98-3.23(6H, m), 3.48-3.62(4H, m), 3.56(3H, s), 3.94(1H, dd, J= 10.2, 2.1 Hz), 6.94(2H, d, J= 8.7 Hz), 7.31(1H, s), 7.34(2H, d, J=8.7 Hz), 8.16(1H, dd, J=5.1, 1.2 Hz), 8.86(1H, d, J=5.1 Hz), 9.26(1H, s) (CDCI3)	461

YA1571	1.27(6H, d, J= 6.0 Hz), 2.43(2H, dd, J= 11.1, 11.1 Hz), 3.02(1H, dd, J=12.0, 10.5 Hz), 3.17-3.23(3H, m), 3.45-3.61(4H, m), 3.56(3H, s), 3.81(1H, m), 3.95(1H, m), 6.92(2H, d, J= 8.7 Hz), 7.32(1H, s), 7.35(2H, d, J=8.7 Hz), 8.17(1H, m), 8.86(1H, d, J=5.1 Hz), 9.26(1H, d, J=1.2 Hz) (CDCI3)	462
YA1572	3.27-3.32(8H, m), 3.47(3H, s), 3.82-3.86(2H, m), 4.36-4.39(1H, m), 7.02(1H, s), 7.72(2H, d, J=7.2Hz), 7.84(2H, d, J=7.2Hz), 7.96-8.04(4H, m), 8.22(1H, d, J=4.2Hz), 9.01(1H, d, J=4.2Hz), 9.30(1H, s)(DMSO-d6)	503
YA1573	2.93-3.10(5H, m), 3.46(3H, s), 3.69-3.71(1H, m), 4.01-4.04(1H, m), 6.99(1H, s), 7.63(2H, d, J=7.2Hz), 7.77(2H, d, J=7.2Hz), 7.88-7.95(4H, m), 8.18(1H, d, J=4.2Hz), 8.99(1H, d, J=4.2Hz), 9.29(1H, s)(DMSO-d6)	450
YA1574	3.08 (1H, dd, J =12.5, 10.4 Hz), 3.24 (3H, m), 3.59 (3H, s), 3.66 (2H, m), 4.09 (1H, dd, J = 10.4, 2.4 Hz), 7.29 (2H, d, J = 8.3 Hz), 7.33 (1H, s), 7.54 (2H, d, J = 8.3 Hz), 7.56 (2H, d, J = 8.3 Hz), 7.59 (2H, d, J = 8.3 Hz), 8.17 (1H, d, J = 4.9 Hz), 8.86 (1H, d, J = 4.9 Hz), 9.27 (1H, s) (CDCI3)	509
YA1575	3.08 (1H, dd, J = 12.4, 10.0 Hz), 3.25 (3H, m), 3.59 (3H, s), 3.67 (2H, m), 4.11 (1H, dd, J = 10.0, 2.0 Hz), 7.33 (1H, s), 7.57 (2H, d, J = 8.0 Hz), 7.63 (2H, d, J = 8.0 Hz), 7.71 (4H, s), 8.16 (1H, dd, J = 5.2, 1.2 Hz), 8.16 (1H, dd, J = 5.2, 1.2 Hz), 8.86 (1H, d, J = 5.2 Hz), 9.27 (1H, d, J = 1.2 Hz) (CDCI3)	493
YA1576	1.45 (3H, t, J = 7.0 Hz), 3.08 (1H, dd, J = 12.5, 10.6 Hz), 3.22 (3H, m), 3.58 (3H, s), 3.62 (2H, m), 4.05 (1H, m), 4.08 (2H,q, J = 7.0 Hz), 6.98 (2H, d, J = 8.0 Hz), 7.32 (1H, s), 7.49 (2H, d, J = 8.0 Hz), 7.52 (2H, d, J = 8.0 Hz), 7.58 (2H, d, J = 8.0 Hz), 8.17 (1H, d, J = 5.3 Hz), 8.86 (1H, d, J = 5.3 Hz), 9.27 (1H, s), (CDCI3)	469
YA1577	1.83 (4H, m), 1.99 (1H, m), 2.21 (1H, m), 2.61 (4H, m), 2.87 (1H, m), 3.03 (1H, dd, J = 12.0, 10.0 Hz), 3.20 (4H, m), 3.33 (1H, m), 3.42 (1H, m), 3.49 (1H, m), 3.56 (3H, s), 3.61 (2H, m), 3.90 (1H, dd, J = 10.0, 2.0 Hz), 6.55 (2H, d, J = 8.8 Hz), 7.29 (2H, d, J = 8.8 Hz), 7.30 (1H, s), 8.16 (1H, d, J = 5.2 Hz), 8.85 (1H, d, J = 5.2 Hz), 9.26 (1H, s) (CDCI3)	487
YA1578	3.09 (1H, dd, J = 12.4, 10.8 Hz), 3.20 (3H, m), 3.58 (3H, s), 3.64 (2H, m), 3.82 (3H, s), 3.86 (3H, s), 4.05 (1H, dd, J = 10.4, 2.8 Hz), 6.58 (2H, m), 7.24 (2H, m), 7.32 (1H, s), 7.47 (2H, d, J = 8.4 Hz), 7.53 (2H, d, J = 8.4 Hz), 8.17 (1H, dd, J = 5.2, 1.2 Hz), 8.86 (1H, d, J = 5.2 Hz), 9.27 (1H, d, J = 1.2 Hz) (CDCI3)	485

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YA1579	3.08 (1H, dd, J = 12.5, 10.6 Hz), 3.23 (3H, m), 3.59 (3H, s), 3.66 (2H, m), 3.93 (3H, s), 3.96 (3H, s), 4.07 (1H, dd, J = 10.3, 2.2 Hz), 6.95 (1H, d, J = 8.3 Hz), 7.11 (1H, d, J = 2.0 Hz), 7.16 (1H, dd, J = 8.3, 2.0 Hz), 7.33 (1H, s), 7.52 (1H, d, J = 8.1 Hz), 7.59 (1H, d, J = 8.1 Hz), 8.17 (1H, dd, J = 5.3, 1.2 Hz), 8.85 (1H, d, J = 5.3 Hz), 9.27 (1H, d, J = 1.2 Hz) (CDCI3)	485
YA1580	3.07 (1H, dd, J = 12.4, 10.4 Hz), 3.23 (3H, m), 3.59 (3H, s), 3.65 (2H, m), 4.08 (1H, dd, J = 10.4, 2.0 Hz), 7.32 (1H, s), 7.41 (2H, d, J = 8.4 Hz), 7.52 (2H, d, J = 8.4 Hz), 7.53 (2H, d, J = 8.4 Hz), 7.58 (2H, d, J = 8.4 Hz), 8.16 (1H, d, J = 4.8 Hz), 8.86 (1H, d, J = 4.8 Hz), 9.27 (1H, s) (CDCl3)	459
YA1581	3.09 (1H, dd, J = 12.2, 11.0 Hz), 3.24 (3H, m), 3.59 (3H, s), 3.66 (2H, m), 4.10 (1H, dd, J = 10.4, 2.4 Hz), 7.29 (2H, m), 7.33 (1H, s), 7.44 (2H, d, J = 8.0 Hz), 7.52 (3H, m), 8.18 (1H, dd, J = 5.3, 1.0 Hz), 8.87 (1H, d, J = 5.3 Hz), 9.27 (1H, d, J = 1.0 Hz) (CDCI3)	493
YA1582	3.06 (1H, dd, J = 12.4, 10.4 Hz), 3.25 (3H, m), 3.58 (3H, s), 3.65 (2H, m), 4.09 (1H, dd, J = 10.0, 2.0 Hz), 7.33 (1H, s), 7.42 (1H, dd, J = 8.0, 2.0 Hz), 7.56 (5H, m), 7.68 (1H, d, J = 2.0 Hz), 8.16 (1H, dd, J = 5.2, 1.2 Hz), 8.85 (1H, d, J = 5.2 Hz), 9.27 (1H, d, J = 1.2 Hz) (CDCI3)	493
YA1583	3.06 (1H, dd, J = 12.3, 10.8 Hz), 3.23 (3H, m), 3.59 (3H, s), 3.65 (2H, m), 4.13 (1H, dd, J = 10.2, 2.2 Hz), 7.33 (1H, s), 8.14 (1H, d, J = 5.3 Hz), 8.15 (2H, d, J = 8.4 Hz), 8.78 (1H, s), 8.86 (1H, d, J = 5.3 Hz), 9.27 (1H, s) (CDCI3)	417
YA1584	1.37(6H, d, J= 6.0 Hz), 3.07(1H, dd, J=12.6, 10.8 Hz), 3.20-3.26(3H, m), 3.58(3H, s), 3.65-3.68(2H, m), 4.07(1H, m), 4.59(1H, m), 6.98(2H, d, J= 8.7 Hz), 7.48(1H, s), 7.50-7.61(6H, m), 8.17(1H, d, J=4.8 Hz), 8.86(1H, d, J=5.1 Hz), 9.26(1H, d, J=1.2 Hz) (CDCI3)	483
YA1585	0.99(3H, t, J= 7.5 Hz), 1.47-1.82(4H, m), 3.07(1H, dd, J=12.3, 10.5 Hz), 3.22-3.27(3H, m), 3.58(3H, s), 3.62-3.65(2H, m), 4.03(2H, t, J= 6.3 Hz), 4.04(1H, m), 6.98(2H, d, J= 8.7 Hz), 7.48(1H, s), 7.50-7.59(6H, m), 8.17(1H, dd, J=5.1, 1.2 Hz), 8.86(1H, d, J=5.1 Hz), 9.26(1H, d, J=1.2 Hz) (CDCI3)	497
YA1586	1.28(1H, br.s), 2.51(3H, s), 3.07(1H, dd, J=10.8, 12.6Hz), 3.21-3.28(3H, m), 3.58(3H, s), 3.64(2H, m), 4.08(1H, dd, J=2.5, 19.5Hz), 7.34(2H, d, J=7.8Hz), 7.45-7.67(7H, m), 8.17(1H, d, J=5.4Hz), 8.86(1H, d, J=5.1Hz), 9.27(1H, d, J=1.2Hz)(CDCI3)	470

YA1587	1.86(1H, br.s), 2.40(3H, s), 3.07(1H, dd, J=10.8, 12.6Hz), 3.20-3.27(2H, m), 3.58(3H, s), 3.62-3.68(3H, m), 4.06(1H, dd, J=2.5, 19.5Hz), 7.24-7.27(2H, m), 7.49-7.52(5H, m), 7.60(2H, d, J=8.2Hz), 8.17(1H, d, J=5.4Hz), 8.85(1H, d, J=5.2Hz), 9.27(1H, s)(CDCl3)	438
YA1588	1.29(6H, s), 1.85(1H, br.s), 2.94-2.96(1H, m), 3.08(1H, dd, J=10.8, 12.6Hz), 3.21-3.27(3H, m), 3.59(3H, s), 3.65(2H, m), 4.07(1H, dd, J=2.5, 19.5Hz), 7.28-7.62(9H, m), 8.17(1H, dd, J=1.2, 5.7Hz), 8.86(1H, d, J=5.1Hz), 9.27(1H, d, J=1.2Hz)(CDCI3)	466
YA1589	1.72(1H, br.s), 3.10(1H, m), 3.21-3.24(3H, m), 3.58(3H, s), 3.58-3.73(4H, m), 4.09(1H, dd, J=2.5, 19.5Hz), 6.75(2H, dd, J=2.1, 6.6Hz), 7.23-7.57(7H, m), 8.16(1H, d, J=5.4Hz), 8.86(1H, d, J=5.1Hz), 9.27(1H, d, J=1.2Hz)(CDCI3)	439
YA1590	2.79 (1H, dd, J = 10.5, 12.6 Hz), 3.20-3.40 (3H, m), 3.50-3.80 (5H, m), 4.45 (1H, dd, J = 3.0, 10.2 Hz), 7.10-7.20 (1H, m), 7.30-7.40 (2H, m), 7.58 (1H, dd, J = 0.9, 7.8 Hz), 7.73 (1H, dd, J = 1.5, 7.8 Hz), 8.19 (1H, dd, J = 0.9, 4.8 Hz), 8.85 (1H, d, J = 5.1 Hz), 9.26 (1H, d, J = 0.9 Hz) (CDCl3)	427
YB013	1.31-1.46(1H, m), 1.60-1.96(3H, m), 2.17-2.30(1H, m), 2.89-3.02(2H, m), 3.41(3H, s), 3.61(1H, d, J=12.4 Hz), 3.80(1H, d, J=13.5 Hz), 3.90-4.01(2H, m), 6.89-7.01(3H, m), 6.96(1H, s), 7.27-7.32(2H, m), 8.18(1H, d, J=4.4 Hz), 8.96(1H, d, J=5.0 Hz), 9.28(1H, s)(DMSO-de)	378
YB014	1.33-1.49(1H, m), 1.60-1.93(3H, m), 2.20-2.32(1H, m), 2.89-3.04(2H, m), 3.41(3H, s), 3.63(1H, d, J=13.3 Hz), 3.82(1H, d, J=11.1 Hz), 4.22-4.37(2H, m), 6.95(1H, s), 7.51-7.56(2H, m), 7.65-7.70(1H, m), 8.00-8.03(2H, m), 8.17(1H, dd, J=1.1, 5.1 Hz), 8.87(1H, d, J=5.1 Hz), 9.28(1H, d, J=1.0 Hz)(DMSO-d6)	406
YB048	(CDCl3): 1.93-2.07(3H, m), 2.38(1H, m), 3.09(1H, m), 3.46(1H, m), 3.57(3H, s), 3.61-3.70(2H, m), 4.05(1H, m), 7.26-7.34(2H, m), 7.59-7.61(2H, m), 7.76(1H, m), 8.16(1H, m), 8.83(1H, m), 9.27(1H, s).	389
YB049	(CDCl3): 1.92-2.08(3H, m), 2.36(1H, m), 3.11(1H, m), 3.44(1H, dd, J=12.9, 10.8Hz), 3.58(3H, s), 3.61-3.70(2H, m), 4.06(1H, m), 7.11(1H, m), 7.28-7.33(2H, m), 7.70(1H, dd, J=8.7, 4.8Hz), 8.15(1H, m), 8.86(1H, d, J=5.4Hz), 9.28(1H, s).	407
YB050	1.93-2.11(3H, m), 2.33-2.45(1H, m), 3.08-3.16(1H, m), 3.46(1H, dd, J=11.4, 12.9 Hz), 3.59(3H, s), 3.62-3.71(2H, m), 4.06(1H, d, J=12.6 Hz), 7.32-7.37(1H, m), 7.32(1H, s), 7.57-7.64(2H, m), 7.75(1H, d, J=8.1 Hz), 8.16(1H, dd, J=1.2, 5.4 Hz), 8.84(1H, d, J=4.8 Hz), 9.28(1H, d, J=0.9 Hz)(CDCI3)	389

YB051	1.91-2.11(3H, m), 2.35-2.43(1H, m), 3.08-3.16(1H, m), 3.42-3.50(1H, m), 3.59(3H, s), 3.62-3.71(2H, m), 4.05(1H, d, J=11.1 Hz), 7.32(1H, s), 7.33-7.37(1H, m), 7.57-7.65(2H, m), 7.75(1H, d, J=7.8 Hz), 8.16(1H, d, J=5.7 Hz), 8.84(1H, d, J=5.4 Hz), 9.28(1H, d, J=1.2 Hz)(CDCI3)	389
YB130	1.78-1.96(4H, m), 2.73-2.90(1H, m), 3.02-3.09(2H, m), 3.46(3H, s), 3.84(2H, d, J=12.6 Hz), 6.98(1H, s), 7.11-7.17(2H, m), 7.33-7.38(2H, m), 8.25(1H, d, J=5.1 Hz), 9.01(1H, d, J=4.8 Hz), 9.30(1H, s)(DMSO-d6)	366
YB157	1.90-2.05(2H,m), 2.18-2.35(2H,m), 2.92-3.09(1H,m), 3.10-3.23(2H,m), 3.58(3H,s), 3.72-3.83(2H,m), 6.95-7.07(1H,m), 7.22(1H,dd,J=2.2,9.0Hz), 7.34(1H,s), 7.46(1H,s), 7.48-7.55(1H,m), 8.20(1H,d,J=5.3Hz), 8.88(1H,d,J=5.2Hz), 9.29(1H.s)(CDCI3)	406
YB158	1.91-2.04(2H, m), 2.23(2H, d, J=8.9Hz), 2.44(3H, s), 2.97-3.11(1H, m), 3.16(2H, dd, J=11.1, 12.4Hz), 3.58(3H, s), 3.77(2H, d, J=13.0Hz), 7.12(1H, d, J=8.5Hz), 7.36-7.41(4H, m), 8.20(1H, d, J=5.3Hz), 8.87(1H, d, J=4.8Hz), 9.28(1H, s) (CDCl3)	402
YB159	1.93-2.05(2H, m), 2.23(2H, d, J=12.6Hz), 3.19(3H, m), 3.58(3H, s), 3.81(2H, d, J=13.2Hz), 7.12-7.16(1H, m), 7.26(1H, s), 7.34(1H, s), 7.56(1H, dd, J=2.4, 8.7Hz), 7.77-7.76(1H, m), 8.20(1H, dd, J=1.2, 5.1Hz), 8.87(1H, d, J=5.1Hz), 9.29(1H, s) (CDCI3)	422
YB160	2.01-2.22(5H, m), 3.20(2H, dd, J=1.4, 11.7Hz), 3.47(3H, s), 3.84(2H, d, J=13.2Hz), 6.99(1H, s), 7.32(1H, m), 7.72(1H, dd, J=2.1, 9.0Hz), 8.09(1H, dd, J=2.7, 9.1Hz), 8.27(1H, m), 9.01(1H, d, J=5.1Hz), 9.31(1H, d, J=1.5Hz) (DMSO-d6)	407
YB162	2.13-2.43(4H,m), 3.10-3.38(3H,m), 3.57(3H,s), 3.65-3.83(2H,m), 7.30-7.40(3H,m), 7.45-7.59(1H,m), 7.62-7.80(1H,m), 8.10-8.22(1H,m), 8.88(1H,d,J=5.1Hz), 9.28(1H,s)(CDCl3)	389
YB193	2.22-2.39(4H, m), 3.21-3.35(2H, m), 3.48(3H, s), 3.90(2H, d, J=13.5 Hz), 7.03(1H, s), 7.38-7.43(1H, m), 7.46-7.51(2H, m), 7.59-7.66(2H, m), 8.28(1H, d, J=5.0 Hz), 9.01(1H, d, J=5.0 Hz), 9.30(1H, s)(DMSO-d6)	373
YB251	2.01-2.22(5H, m), 3.20(2H, dd, J=11.4, 11.7Hz), 3.47(3H, s), 3.82(2H, d, J=13.2Hz), 7.32(1H, m), 6.70(1H, s), 7.72(1H, dd, J=2.1, 9.0Hz), 8.09(1H, dd, J=2.7, 9.1Hz), 8.27(1H, m), 9.01(1H, d, J=5.1Hz), 9.31(1H, d, J=1.5Hz)(DMSO-d6)	406

	1.64(2H, m) 2 23/2H d 1 6 2000	
VDOTE	1.64(2H, m), 2.23(2H, d, J=8.9Hz), 2.44(3H, s), 2.97-3.11(1H, m), 3.16(2H, dd, J=11.1, 11.4Hz)	,
YB252	3.58(3H, s), 3.77(2H, d, J=13.0Hz) 7.12(1H, d, J=8.5Hz), 7.36-7.41(4H, m), 8.20(1H, d, J=5.3Hz), 8.87(1H, d, J	401
	J=5.3Hz), 8.87(1H, d, J=4.8Hz), 9.28(1H,	401
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	1.93-2.05(2H m) 2 23(2H d 1.42 2H)	
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YB253		,
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	1./2-1.94(8H m) 2.52/4H m) 0.07.0 0-10-1	
YB254		
10234		431
	8.86(1H, d, J=5.1 Hz), 9.27(1H, s) (CDCl3)	751
	1.78 (1H, m), 1.89 (3H, m), 1.96 (3H, m), 2.13 (1H, d, J = 13.6 Hz), 2.46 (2H, m)	
YB255	(1H, d, J = 13.6 Hz), 3.46 (2H, m), 3.56 (3H, s), 3.66 (2H, t, J = 6.8 Hz), 3.73 (2H, m), 7.30 (2H, d, J = 8.0 Hz), 7.31 (1H, s), 7.50 (2H, d)	
16200	J = 8.0 Hz), 7.31 (1H, s), 7.52 (2H, m), 7.30 (2H, d, 8.15 (1H, d, $J = 5.2 Hz$), 8.66 (4H, d, $J = 5.2 Hz$),	444
	8.15 (1H, d, J = 5.2 Hz), 8.86 (1H, d, J = 5.2 Hz), 9.27 (1H e)	744
	1.46-1.73(9H, m), 2.01(2H, d, J=12.1Hz),	
VD0=0	4.VV(4 J=5	· y ·
YB256	1 1407 UEA DIDEION SI 3 70700 A 1 45 51.	254
	-1 ''='\'''	354
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YB257		1
. 5207	1 ''-	425
	J=4.8Hz), 9.01(1H, d, J=4.8 Hz), 9.30(1H, s) (DMSO-d6)	•
	1.80-1.90(4H m) 2.82(4H m)	
•	1.80-1.90(4H, m), 2.83(1H, m), 2.99-3.08(2H, m), 3.46(3H, s), 3.81-3.86(2H, m), 6.98(1H, s), 7.26-7.43(3H, m), 7.50(4H, m), 6.98(1H, s),	
YB258		
	J=4.8Hz), 9.01(1H, d, J=4.8 Hz), 9.30(1H, s)	425
	1 (5/11/40)	
	1.76-1.96(8H, m) 2.67(1H, m) 2.00.0.07(01)	
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YB259		447
		417
	1 5 5 1 1121, 3.301 ID \$1 (11M)\$(A 46)	
	1.87-1.99(8H, m), 2.72(1H, m), 2.00, 2.00(0)	
YB260	3,550 11	
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	J=5.1Hz), 9.30(1H, s) (DMSO-d6)	
i	1.48-1.58(2H, m), 2.00-2.07(2H, m), 2.71(6H, s), 3.07-3.14(2H, m), 3.34-3.26(4H, m), 2.71(6H, s),	
	3.07-3.14(2H, m), 3.34-3.36(1H, m), 3.48(3H, s), 3.69-3.73(2H, m), 4.87(1H, d, J=8.2Hz),	i
YB261	0.00°0.00(40, m) 6 96/14 a) 0 0 4/411 .	
	J=4.2Hz), 9.00(1H, d, J=4.2Hz), 9.30(1H,	406
	- ''-''-', U.UU(U.	
	s)(DMSO-d6)	1

	4.54.4.00/01	
YB262	1.51-1.62(2H, m), 2.02-2.08(2H, m), 3.10-3.18(2H, m), 3.42(3H, s), 3.46-3.50(1H, m), 3.67(3H, s), 3.69-3.73(2H, m), 5.56(1H, d, J=8.2Hz), 6.10-6.24(3H, m), 6.94-6.99(2H, m), 8.24(1H, d, J=4.2Hz), 9.00(1H, d, J=4.2Hz), 9.29(1H, s)(DMSO-d6)	393
YB263	1.48-1.58(2H, m), 2.01-2.08(2H, m), 3.08-3.17(2H, m), 3.40(3H, s), 3.41-3.43(1H, m), 3.63(3H, s), 3.69-3.73(2H, m), 5.09(1H, d, J=8.2Hz), 6.59(2H, d, J=7.2Hz), 6.72(2H, d, J=7.2Hz), 6.96(1H, s), 8.24(1H, d, J=4.2Hz), 9.01(1H, d, J=4.2Hz), 9.29(1H, s)(DMSO-d6)	393
YB264	3.08-3.15(2H, m), 2.04-2.08(2H, m), 3.08-3.15(2H, m), 3.42(3H, s), 3.55-3.83(6H, m), 4.57(1H, d, J=8.2Hz), 6.53-6.90(4H, m), 7.03(1H, s), 8.25(1H, d, J=4.2Hz), 9.00(1H, d, J=4.2Hz), 9.30(1H, s)(DMSO-d6)	393
YB265	1.66-1.87(3H, m), 1.91-1.99(1H, m), 2.93-3.08(3H, m), 3.43(3H, s), 3.72-3.78(2H, m), 6.97(1H, s), 7.34(2H, d, J=5.7 Hz), 7.54(2H, d, J=5.4 Hz), 8.18(1H, dd, J=5.4, 1.2 Hz), 8.99(1H, d, J=5.1 Hz), 9.29(1H, d, J=0.9 Hz)(DMSO)	426
YB266	2.53-2.56(4H, m), 2.41-2.45(2H, m), 2.53-2.56(4H, m), 2.93-3.00(3H, m), 3.08-3.10(4H, m), 3.43(3H, s), 3.50-3.54(2H, m), 3.67-3.71(2H, m), 4.42-4.46(1H, m), 6.90(2H, d, J=7.2Hz), 6.96(1H, s), 7.19(2H, d, J=7.2Hz), 8.17(1H, dd, J=1.2, 4.2Hz), 8.99(1H, d, J=4.2Hz), 9.29(1H, d, J=1.2Hz)(PMCC, JC)	476
YB267	3.43(3H, s), 3.66-3.77(2H, m), 6.71(2H, d, J=7.2Hz), 6.96(1H, s), 7.15(2H, d, J=7.2Hz), 8.17(1H, d, J=4.2Hz), 8.99(1H, d, J=4.2Hz), 9.28(1H, s)(DMSO-d6)	391
YB268	1.72-1.84(4H, m), 2.89-3.08(7H, m), 3.43(3H, s), 3.67-3.77(6H, m), 6.90-6.96(3H, m), 7.21(2H, d, J=7.2Hz), 8.17(1H, d, J=4.2Hz), 8.99(1H, d, J=4.2Hz), 9.29(1H, s)(DMSO-d6)	433
YB269	1.51-1.83(10H, m), 2.87-3.00(3H, m), 3.07-3.10(4H, m), 3.43(3H, s), 3/68-3.77(2H, m), 6.89(2H, d, J=7.2Hz), 6.96(1H, s), 7.17(2H, d, J=7.2Hz), 8.18(1H, d, J=4.2Hz), 8.99(1H, d, J=4.2Hz), 9.29(1H, s)(DMSO-d6)	431
YB270	1.72-1.90(4H, m), 2.21(3H, s), 2.42-2.45(4H, m), 2.87-2.97(3H, m), 3.08-3.10(4H, m), 3.43(3H, s), 3.67-3.77(2H, m), 6.90(2H, d, J=7.2Hz), 6.96(1H, s), 7.19(2H, d, J=7.2Hz), 8.17(1H, d, J=4.2Hz), 8.98(1H, d, J=4.2Hz), 9.29(1H, s)(DMSO, ds)	446
YB271	1.63-1.95(6H, m), 2.04-2.08(2H, m), 2.61-2.65(2H, m), 2.69(6H, s), 2.86-3.00(3H, m), 3.13-3.16(1H, m), 3.43(3H, s), 3.67-3.81(4H, m), 6.92-6.96(3H, m), 7.20(2H, d, J=7.2Hz), 8.17(1H, d, J=4.2Hz), 9.00(1H, d, J=4.2Hz), 9.29(1H, s)(DMSO-d6)	474

	11 72-1 82/4H m) 0 00 0 00	
YB272	1.72-1.83(4H, m), 2.89-3.09(7H, m), 3.42(3H, s), 3.54-3.57(4H, m), 3.67-3.77(2H, m), 5.11(2H, s), 6.91-6.96(3H, m), 7.21(2H, d, J=7.2Hz), 7.26-7.44(5H, m), 8.17(1H, d, J=4.2Hz), 8.99(1H, d, J=4.2Hz), 9.29(1H, s)(DMSO-d6)	
YB273	1.57-1.63(2H, m), 1.82-1.89(2H, m), 2.51-2.98(13H, m), 3.41(3H, s), 3.76-3.80(3H, m), 6.70(1H, s), 8.22(1H, d, J=4.2Hz), 9.01(1H, d, J=4.2Hz), 9.30(1H, s)(DMSO-d6)	370
YB274	1.52-1.63(2H, m), 1.84-1.90(2H, m), 2.36-2.42(11H, m), 2.86-2.94(2H, m), 3.40(3H, s), 3.49-3.53(2H, m), 3.73-3.77(2H, m), 4.40-4.43(1H, m), 6.96(1H, s), 8.22(1H, d, J=4.2Hz), 9.01(1H, d, J=4.2Hz), 9.30(1H, s)(DMSO-d6)	400
YB275	1.72-1.92(4H, m), 2.80-3.02(11H, m), 3.28-3.30(1H, m), 3.43(3H, s), 6.88(2H, d, J=7.2Hz), 6.96(1H, s), 7.18(2H, d, J=7.2Hz), 8.18(1H, d, J=4.2Hz), 8.99(1H, d, J=4.2Hz), 9.29(1H, s)(DMSO-d6)	432
YB276	1.06-1.38(5H, m), 1.61-1.92(9H, m), 2.77-2.91(3H, m), 3.03-3.12(1H, m), 3.42(3H, s), 3.64-3.75(2H, m), 5.27(1H, d, J=8.2Hz), 6.52(2H, d, J=7.2Hz), 6.96(1H, s), 7.02(2H, d, J=7.2Hz), 8.17(1H, d, J=4.2Hz), 8.99(1H, d, J=4.2Hz), 9.28(1H, s)(DMSO-d6)	445
YB277	1.76-1.97(4H, m), 2.97-3.10(5H, m), 3.47(3H, s), 3.73-3.76(2H, m), 3.88-3.93(2H, m), 6.71(1H, dd, J=7.2, 7.3Hz), 6.96-7.34(8H, m), 8.19(1H, d, J=4.2Hz), 9.00(1H, d, J=4.2Hz), 9.29(1H, s)(DMSO-d6)	465
YB278	1.10-1.15(1H, m), 1.32-1.47(4H, m), 1.64-1.82(9H, m), 2.69(3H, s), 2.82-2.97(3H, m), 3.42(3H, s), 3.54-3.75(3H, m), 6.73(2H, d, J=7.2Hz), 6.95(1H, s), 7.13(2H, d, J=7.2Hz), 8.16(1H, d, J=4.2Hz), 8.98(1H, d, J=4.2Hz), 9.28(1H, s)(DMSO-d6)	459

Test Example: Inhibitory activity of the medicament of the present invention against P-GS1 phosphorylation by bovine cerebral TPK1

A mixture containing 100 mM MES-sodium hydroxide (pH 6.5), 1 mM magnesium acetate, 0.5 mM EGTA, 5 mM β -mercaptoethanol, 0.02% Tween 20, 10% glycerol, 12 μ g/ml P-GS1, 41.7 μ M [γ -32P] ATP (68 kBq/ml), bovine cerebral TPK1 and a compound shown in Table (a final mixture contained 1.7% DMSO deriving from a solution of a test compound prepared in the presence of 10% DMSO) was used as a reaction system. The phosphorylation was started by adding ATP, and the

reaction was conducted at 25°C for 2 hours, and then stopped by adding 21% perchloric acid on ice cooling. The reaction mixture was centrifuged at 12,000 rpm for 5 minutes and adsorbed on P81 paper (Whatmann), and then the paper was washed four times with 75 mM phosphoric acid, three times with water and once with acetone. The paper was dried, and the residual radioactivity was measured using a liquid scintillation counter. The results are shown in the table below. The test compound markedly inhibited the P-GS1 phosphorylation by TPK1. The results strongly suggest that the medicaments of the present invention inhibit the TPK1 activity, thereby suppress the A β neurotoxicity and the PHF formation, and that the medicaments of the present invention are effective for preventive and/or therapeutic treatment of Alzheimer disease and the above-mentioned diseases.

Table 6

Compound No.	IC50
XA361	0.018 μ M
XB80	0.23 μ M
YA0864	0.216 μ M
YB257	0.014 μ M

Formulation Example

(1) Tablets

The ingredients below were mixed by an ordinary method and compressed by using a conventional apparatus.

Compound of Example 1	30 mg
Crystalline cellulose	60 mg
Corn starch	100 mg
Lactose	200 mg
Magnesium stearate	4 mg

(2) Soft capsules

The ingredients below were mixed by an ordinary method and filled in soft capsules.

Compound of Example 1	30 mg
Olive oil	300 mg
Lecithin	20 mg

Industrial Applicability

The compounds of the present invention have TPK1 inhibitory activity and are useful as an active ingredient of a medicament for preventive and/or therapeutic treatment of diseases caused by abnormal advance of TPK1 such as neurodegenerative diseases (e.g. Alzheimer disease) and the above-mentioned diseases.